The Chemist & Druggist

SUPPLEMENT.

Businesses Wanted
Businesses for Disposal
Premises to Let
Auction Sales

SATURDAY, JULY 29, 1893.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO.

32 LUDGATE HILL, E.C.,

CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of snbmitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—**£1,500.—LONDON, CITY.**—Handsome Pharmacy, situate in a first-class position; business Dispensing aud Retail of best class; returns between £1,400 and £1,500 yearly: can easily be extended by personal attention; uo Sunday work; incomer must be prepared to invest about £1,600.

2.—**£600.—LONDON, S.E.**—Old-established good-class Business, situate iu a good-class locality; returns £600 yearly; all good-class trade; good house with garden; rent moderate; price £550; vendor taking a larger business.

3.—**£1,700.—LONDON SUBURB.**—First-class Dispensing Business; no poor business; returns about £1,700 yearly; *all very profitable*; good house, handsome shop, garden attaehed; purchaser should be prepared with about £2,000; refereuces will facilitate.

4.—**£1,000.—LONDON, E.**—Established Business of very good class, Dispensing and Retail: returns £1,000, increasing yearly; very good *profitable business*; well-fitted shop and ample stock; convenient house, with private entrance; price £900; good openiug for a Dentist.

5.—**£1,100.—LONDON SUBURB, S.E.**—In a good residential locality, an old-estahlished Business; chiefly Dispensing; returns £1,100 yearly, *with very good profits*; well-fitted shop; good house and garden; the fullest investigation will be permitted; price about £800 iuclusive.

6.—**£600.—LONDON, S.W.**—Very compact and well-fitted shop; business consists of Dispensing, Retail, and Prescribing; all good-class, *profitable work*; returns £600 yearly; expenses very light; small but convenient house; price about £550; valuation if wished.

7.—**£400.—LONDON, N.**—Retail and Dispensing Business; situate in a very busy neighbourhood; returns £400: double-fronted shop, well fitted; capital position for pushing business; small house; low reutal; price £250; well suited for a Branch.

8.—**£1,400.—NORTHERN COUNTY.**—Situate in a busy locality in a large commercial town; business established many years; returns £1,400 yearly; can be largely developed; hours of business light; price about £900; a *bona-fide* purchaser will be treated with liberally, and full proofs of the genuine nature of the business will be furnished.

9.—**£900.—SOUTH OF ENGLAND.**—In a rural district: Mixed Business; returns uearly £900 yearly, *very profitable*, admitting of large extension; large shop, handsomely fitted; stock large and well selected; house contains 9 or 10 rooms, eellars, yard, &c.; rent low; about £600 only required; capital investmeut for anyoue desiring rural business with a fair amount of outdoor work.

10.—**£1,500.—ESSEX.**—Situate in a country town; unopposed; good old-established Business; returns betweeu £1,400 and £1,500 yearly; large double-fronted shop, and good house with garden; low reutal; price about £1,100, or valuation if wished; this business has been established over 50 years, and has beeu held iu vendor's family from the commencement.

11.—**£2,000.—SURREY.**—In a favourite locality (residential), within an hour's journey of Londou; first-class Dispeusing and Retail Business; returns rather more thau £2,000 yearly; *profits first class*; very good house, with conservatory and gardeu; the busiuess premises are very commodious and the shop haudsome and attractive; about £2,000 required; reference to Londou house will oblige.

12.—**£1,700.—SOUTHERN WATERING-PLACE.**—First-class Dispensing Business; well-known Pharmacy; vendor retiriug from business; returns £1,700; the business has beeu held by vendor for about 40 years; house iu perfect repair, practically new; splendid position; purchaser with £1,500 will he treated with.

13.—**£400.—LONDON BRIDGE** (within easy distance of).—Dispeusing aud Retail; about £400 yearly; *very profitable work*; conducted under manager for some years; couvenient house; rent is nominal; shop is old-fashioned, but convenieut; price about £300.

14.—**£350.—COUNTRY TOWN** (South).—Retail and Dispensing Business; returns £350 yearly; admits of extensiou if heavier trade is cultivated; very good house, with garden; low rental; price about £300.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital, from £200 to £500.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

F. J. BRETT,

VALUER, LEICESTER,

60 ST. STEPHEN'S ROAD.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS. 20 YEARS' EXPERIENCE.

NO CHARGE TO BUYERS.

STOCKTAKING UNNECESSARY.—Stocktaking is always dreaded by Chemists, and with a competent Valuer is not necessary.

F. J. BRETT is prepared to estimate or to value entire stocks as they stand with little or no inconvenience to ordinary business, and has repeatedly done so with entire satisfaction to those adopting this mode.

STOCKS AND FIXTURES BOUGHT FOR CASH.

HOME COUNTY.—£1,000 returns; Light Retail, with good Specialities and Dentistry; price £1,000.

YORKS.—£650 returns; Retail and Prescribing; illness cause of sale; valuation about £300.

LANCS.—£1,055 returns; Light Retail, Dispensing, and Prescribing; prominent position of important town; price £750.

DEVON.—£1,400 returns; high-class Retail and Dispensing; capable of much extension; price £900.

LINCOLNSHIRE.—£1,350 returns; General Retail and Agricultural; in good town; goodwill £150; stock and fixtures at valuation, about £700.

CHESHIRE.—£1,100 returns; net profit £336; good house; introduction given; price £800, or valuation.

NOTTS.—£700; high-class Retail and Dispensing; splendid position; very handsome shop; price £700, or valuation.

DURHAM.—£1,500; General and Medicine-chest trade; price £900.

YORKS.—£700 returns; good town; valuation about £500, part can remain.

STAFFS.—£700 returns; valuation about £400.

DERBY.—£675 returns; good General Retail, in busy part; can be much increased; valuation about £350.

FURNESS DISTRICT.—£675 returns; death vacancy; unopposed; rent £20; price £220.

LINCOLN.—£450 returns; Light Retail; good position; price £250.

MANCHESTER.—£450 returns, half net profit; unopposed; at valuation, about £150.

LIVERPOOL.—£500 returns; young man could much increase; price £220.

SOMERSET.—£500 returns; very profitable; price £350.

LINCOLNSHIRE — £340 returns; Light Retail; no opposition for half a mile; splendidly situated in midst of good-class residential suburb; appointment worth £20 per annum; this only wants personal attention to at once double; unusually large and convenient residence.

SUSSEX.—£540 returns; seaside; Dispensing and Light Retail; price £400.

LINCOLNSHIRE.—£580 returns; large garden, greenhouse, vinery, &c.; price £280.

LANCS.—£400 returns; price £200.

LONDON.—£900 returns; Dispensing and Light Retail; price £750.

And about 100 others.

MESSRS. BERDOE & CO.

CHEMISTS' TRANSFER AGENTS & VALUERS,

30 JEWRY STREET, ALDGATE, E.C.

Established 1870.

NOTICE TO VENDORS

Having been for the past 22 years solely engaged in the Sale, Purchase, and Valuation of Chemists' Businesses, we have, as Transfer Agents and Valuers, the largest experience of any in the Trade. VENDORS placing their businesses in our hands for transfer may in all cases rely upon a speedy sale being effected without undue publicity. Terms forwarded post free on application. No sale, no charge.

NO CHARGE TO PURCHASERS

1.—**DEVONSHIRE.**—First-class Light Retail, Dispensing, and Prescribing Business; returns £1,400; moderate rent; good house; satisfactory reasons for leaving; elegantly fitted and heavily stocked; price £900.

2.—**KENT.**—Retail, Dispensing, and Prescribing Business with steadily increasing connection; nothing heavy; returns £2,000; net profit £600; good house, warehouse, and garden; price about £1,750.

3.—**SOMERSET.**—Inland health resort; high-class Dispensing Business; returns £900; capable of being increased in younger hands; splendid position; full prices; price £650; introduction; selling through illness.

4.—**SUFFOLK** (on main line G. E. Railway).—Unopposed Light Retail and Prescribing Business; net profit £350, after paying all expenses; double-fronted shop, well fitted and stocked; rent £30, on lease; convenient house, with splendid garden, well stocked with fruit-trees; price about £550

5.—**MIDLANDS.**—Good-class Retail, Dispensing, and Prescribing Business; returns £1,100, and making £350 net profit after paying all expenses; good house; valuation of stock and fixtures about £800.

6.—**HOME COUNTY** (20 miles from London).—Light Retail, Dispensing, and Prescribing Business; returns £650, with good profits; low rent; good house and garden; price £450 or offer.

7.—**DEVON.**—Light Retail, Dispensing, and Prescribing Business; returns £500; well situated in principal street; shop well fitted and stocked; good house and garden; valuation about £250.

8.—**ESSEX COAST.**—Unopposed Light Retail and Prescribing Business; splendid position; close to hotels and facing sea; returns £450, can be increased; low rent, good house; price £300.

9.—**LONDON, N.W.**—First-class Retail and Dispensing Business; returns £1,200; net profit £450; satisfactory reasons for selling; low rent; good lease; nice house; price £1,100.

10.—**LONDON, S.W.**—Busy thoroughfare; good-class Light Retail and Dispensing Business; very few patents sold; returns £1,200; net profit £400; price £900; month's trial given.

Messrs. Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

ANDROS & CO.,

Chemists' Transfer Agents & Valuers,

67 SHIP STREET, BRIGHTON,

Invite those desirous of disposing of their Businesses to forward full particulars (in confidence).

NO CHARGE WHATEVER TO PURCHASERS.

WORCESTER.—Light Retail, Dispensing, and Prescribing Business; established nearly 90 years; low rent; owner retiring; price £300.

LONDON SUBURB.—Returns over £400 at good prices; Light Retail, Prescribing, and Dispensing; double-fronted shop, moderate rental; very suitable for energetic beginner; price £350.

MIDLANDS.—Returns £700; very old-established Business; splendidly fitted Pharmacy, large house and garden; close to station; price to immediate purchaser, £500.

LONDON, W.—High-class and old-established Retail, Dispensing, and Prescribing Business, situated in main road; good house, at low rental; returning £620; price £450.

CHESHIRE.—Returns £1,100; General Retail, Prescribing, and Dispensing; large house and attractive pharmacy; old-established; price £800.

Messrs. ANDROS & CO. will forward a list of Genuine Businesses for disposal on receipt of requirements.

LONDON AND PROVINCIAL

MEDICAL & CHEMIST TRANSFER AGENCY,

2 Finsbury Square, London, E.C.

PROPRIETORS—

VICTOR NATALI & CO.

£700.—HERTFORDSHIRE.—Established over 50 years; capable of great development; first-rate investment to an energetic young man.

£200.—SOUTH LONDON.—Returns about £300; well-fitted shop; 4 rooms, kitchen, scullery, garden; stables let off; rent £40.

£300.—BOSTON.—Rent £20; freehold £400.

£300.—LINCOLNSHIRE.—Freehold £400, for a good old-established Business; in present proprietor's hands for 16 years; good plate-glass front; full prices; horse and cattle medicines.

£100.—LONDON.—Ten-roomed house; suitable for an open Surgery; fixtures and stock worth more than asked.

G. B. CROCKER & CO.

Sole Proprietors,

Mr. WILLIAM JUDD and Mr. ALFRED MANNERS,

Valuers, Transfer Agents, and Accountants to the Drug Trade.

VALUATIONS MADE FOR PROBATE OR TRANSFER.

Books Audited and Balance-sheets Prepared in any part of the United Kingdom.

G. B. C. & CO. invite the attention of intending Purchasers to the following:—

CHESHIRE.—An old-established Retail and Dispensing Business, in best part of busy market town; returns £1,030; price £800, or valuation of stock and fixtures. This is well worth the attention of a pushing man, as there is great scope for improvement.

INLAND HEALTH RESORT.—High-class Dispensing trade, giving a net profit of £700 a year; *bonâ-fide* purchasers with £2,000 to invest can have full particulars.

SOUTH COAST.—VALUATION ONLY.—First-class Dispensing Business, in fashionable health resort on the South Coast; splendid opportunity for a young and energetic man to acquire an excellent business upon favourable terms.

LONDON, S.E.—Good-class Family and Dispensing Business; returns £500; price £400; very handsome Pharmacy in select residential locality.

LONDON, N.—Main road; old-established cash Retail and Dispensing Business; fine bold commanding shop, beautifully fitted and well stocked; returns £1,450, very profitable; price £1,250.

YORKSHIRE.—An excellent Family and Dispensing Business; returns £1,250; price £1,100, or valuation terms can be arranged.

NORTH BRITAIN.—First-class Retail and Dispensing Business returning under manager £1,150; net profit £500; price £1,000; pleasantly situate in main street of fashionable city.

DEVONSHIRE.—Good-class Retail and Dispensing trade; returns £1,400; price £1,000; well recommended.

HERTS.—Old-established good-class Family Business; returns nearly £650, and capable of great increase; good house and garden; price £450.

LONDON, N.—Old-established Business, with valuable Proprietaries stocked by the trade; returns £700; net profit £300; price £650.

DEATH VACANCY.

The Executors of the late Charles Elsey, High Street, Maldon, Essex, have instructed us to offer for Sale by Valuation (without premium for goodwill), the Stock-in-trade, Fixtures, and effects of the old-established Business, which has been carried on for 30 years by the late proprietor; the shop stands in a most commanding position in the centre of the town; the returns are about £700 a year, and may be considerably increased by attention; the house is large and most conveniently arranged; splendid garden, well stocked with flowers and fruit-trees. Orders to view and full particulars sent upon receipt of application.

THOMAS TOMLINSON & SON

CHEMISTS' VALUERS & TRANSFER AGENTS,

9 NEW CANNON STREET, MANCHESTER,

Have Businesses for disposal as follows:—

HUDDERSFIELD.—Old-established genuine Retail and Photographic Business; returns £1,270; price about £1,000.

SHEFFIELD (Outskirt).—A light Business, with good residence; returns £350, have been £12 previous to illness of late owner; very profitable; may be had, owing to special circumstances, for £150, under valuation.

MANCHESTER (Good Suburb).—A neat little Pharmacy; returns £450; £125; can recommend strongly.

PRESTON.—Handsome shop; old-established; returns £1,060; valuation about £750.

MIDDLETON.—Returns £450; valuation only about £220.

BURY (Lancashire).—Very old-established and most respectable Business in the town; returns £750; valuation only about £650; a really good thing.

BLACKBURN.—A neat, well-fitted shop in very respectable outskirt; returns £300, all very profitable; light trade; a splendid future; price valuation, about £200; no opposition.

CLAYTON-LE-MOORS.—The business of the late Mrs. Wall, doing near £400 at full prices, cheap, about £180. Farsley, £180; two at St. Helens; two at Horwich; another at Sheffield, Stockport, two in Manchester, Hollinwood, Bradford, Derby, in good locality, with P.O; Broad Green, Liverpool, Hyde, Skipton, Warrington, and others, all at valuation. **No charge to purchasers.**

BUSINESSES FOR DISPOSAL.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

CHEMISTS wanting a Business in which to safely invest £1,000, and in another case £1,250, can obtain particulars by applying to "Alpha," Evans, Sons & Co., Liverpool.

NORTHERN Suburb.—Having succeeded to another business shall require to dispose of my beautifully situated modern Pharmacy about September; growing nice-class trade; practically no opposition; good opening for Dentistry or Photography; good house, garden, and stabling; bracing air; price £400; no agents. "Chemist," c/o 1 Whitehall Mansions, Archway Road, N.

FOR Sale.—Rare opportunity for a young man with about £100; old-established shop, good fixtures; densely-populated neighbourhood; low rent; could be adapted for living at or lock-up. Apply, 7 Corn Exchange, Sheffield.

RETURNS £500; under good management could be considerably increased; shop on main road; newly-fitted; double-fronted; plate-glass windows; price at valuation; this is well worth consideration. Apply, Foulston, Chemist, Hull.

LIGHT Retail and Prescribing Chemists' Business, in the best position of a good market town in Middlesex; rent £32; stock and fixtures at valuation; could be reduced to £150. Further particulars, address, "Chemist," 20 High Street, Uxbridge.

SWANSEA (Main Thoroughfare).—A profitable Cash Branch Business for disposal; returns about £300; capable of great increase; rent £30; satisfactory reasons for disposal; no reasonable offer refused. Apply, J. Davis, Chemist, 30 High Street, Swansea.

TO Dentists.—Rare occurrence! A splendid opportunity! A well-established London practice of 12 years' standing; could be worked on the 3-days-a-week system. Particulars of "Otesiphon," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

NORTHERN CITY.—Returns £1,400, increasing; very few patents; several valuable specialities; capable of great extension under personal supervision; price about £900. Address, "Excelsior," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

IN a town near Manchester; profitable Light Retail, on main road, in good-class district; established 16 years; few patents sold; price £200; rent £24; owner commencing medical practice close to; excellent opening for Dentistry. Apply, 236/27, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ESSEX.—Death vacancy; genuine Chemist's and Druggist's Business; old-established; returns £700; Mixed Retail, Dispensing, and Prescribing; good position; splendid opening for a good Prescriber; stock and fixtures at valuation; no reasonable offer refused. Apply, J. Myddelton, Gainsborough.

£125 will purchase Chemist's Business in large manufacturing town, few miles from Manchester; busy growing district; no opposition; low rent; capital opportunity to commence business; several well-established Proprietary articles. Particulars and reason for disposing on application to owner, D. G. B., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES FOR DISPOSAL—Cont.

£60 Cash.—Nicely-fitted shop, well stocked; genuine bargain: main road; crowded neighbourhood; splendid opening for Dentistry; now under management; wants seeing. Apply, 268/32, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DEATH Vacancy.—London Suburb.—A gentleman, who has for some time conducted a Branch Business by the help of an assistant, who has died suddenly, desires to sell the Business at once; the net profit is about £12) yearly; no reasonable offer will he refused; about £300. Apply at Orridge & Co.'s Offices, 32 Ludgate Hill.

FOR immediate disposal, genuine unopposed, old-established Light Retail, Dispensing, and Prescribing Business; satisfactory reasons for disposal; returns £500; price £300, part of which can remain; excellent opportunity for a pushing man; population 8,000. "Pharmacist," c/o F. H. Alcock, 9 Broad Street Corner, Birmingham.

KENT (Market Town).—Old-established Chemist's; best position; same hands 36 years, now retiring; several valuable preparations only require developing; 9-roomed house, fruitful garden; railway shortly to be opened; good Grammar School; held on lease at a low rental. Apply, Messrs. Hearon & Co., 38 Southwark Street, S.E.

GENUINE old-established Light Retail, Dispensing, and Prescribing Business, with Wine licence; near South Coast; returning over £1,000 per year; good house, double-fronted shop, and convenient premises, in best position; same hands 40 years; owner retiring; references given and required. H. J. B., Docharn, Elmbourne Road, Upper Tooting.

NO goodwill; stock and fixtures, &c., at fair valuation; first-class main-road position, London, S.W.; an exceptional opportunity for acquiring a genuine business (£620 returns) at a nominal cost; value estimated about £400; reasonable offer accepted; small, comfortable house; full investigation. Write, "Radix," 137 Railton Road, Herne Hill.

£400 (part can remain at 4 per cent.).—Dispensing and Light Retail; situate in principal thoroughfare of fashionable South-coast town; capital chance for a smart business man; 1,500 new prescriptions dispensed last year under management; opening for Dentistry; Extractions now nearly pay rent. B., c/o Wells, Castle Road, Hastings.

OLD-ESTABLISHED and unopposed Retail and Prescribing Business; well-fitted shop and good stock; price about £300, which is about valuation; low rent; exceptional chance; in populous neighbourhood; good opening for Dentistry; satisfactory reasons for disposal; no agents. Apply, "Lancs," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHEMIST and Veterinary Practice.—To be disposed of, in consequence of death of late owner, a genuine Mixed Country Business, with splendid outdoor Veterinary connection; situated in the midst of thriving agricultural district; a splendid opportunity for an energetic man. Apply, in first instance, W. J. E., 39 High Street, Islington, London, N.

THROUGH ill-health; a Light Cash Retail and Family trade; good prices for Drugs; only leading Patents cut; returns £750, increasing; Dentistry could be added; every investigation; rent low on lease; convenient house with private entrance; references to Drug houses; price £650; popular town. "Oxygen," c/o Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£85 (all at), cash; exceptional opportunity; main road, S.E.; unopposed position; returns average over £5 10s. weekly, good profits, could be greatly increased; thickly populated locality; shop well fitted and stocked; good Proprietaries; rent £40; capital chance for smart business man; good reasons for selling. Apply, immediately, 652 Old Kent Road, S.E.

LONDON, S.W.—Exceptional opportunity.—Thoroughly genuine Prescribing, Dispensing, and Light Retail Chemists' Business; profits good; principally ready-money; in centre of private residences; population increasing; Post and Telegraph Office attached, which nearly pays rent; no other chemist within ¼ mile. Apply, K., c/o Hearon, Squire & Francis, Southwark Street, S.E.

LANCASHIRE.—Neglected Retail and Prescribing; returns average £10, have been over £20, weekly; grand opening for Dentist; rent £22. for shop, fixtures, and modern dwelling-house; population about 5,000; no other Chemist; could be speedily and easily improved under personal management; price, valuation of stock and small goodwill only; an appointment of about £70 a year attached, easily worked; satisfactory reasons for disposal. 267/28, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

UNDER Deed of Arrangement. — *Re* Albert Edward Woodward, Chemist, Druggist, and Dentist, Broadway, Douglas, Isle of Man.—For Sale by private contract, as a going concern, the Business lately carried on by the above; stock, at cost prices, over £300; excellent and convenient fixtures and fittings, cost £274; good position on Broadway Corner, the central thoroughfare of the north town; a splendid summer trade, and a good opening for residential trade. Further particulars from the Trustees, by whom tenders will be received; H. G. Saunders, 149 Duke Street, Liverpool; and W. M. Kerruish, 21 Athol Street, Douglas.

BUSINESSES WANTED.

SMALL Retail Chemist, Stationer, or Grocer, or Mixed, with post-office; suburban or country village. Full particulars, 237/28, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

UNOPPOSED Village Business, with good house, stable, and garden; no objection to Seeds or Mixed trade. Address, "Veterinary Chemist," 73 Rectory Grove, Clapham, S.W.

WANTED, at once, a good-class Retail and Dispensing Business, returning £1,200 upwards; capital at command up to £5,000 if required; must bear investigation. Particulars, in strict confidence, to E. J. H., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ADVERTISER is open to buy a reliable Retail and Dispensing Business in the Midlands, South, or South-West of England, and has cash up to £1,400 ready, or would undertake a Manager's berth with view to succession. Address, "Minor," c/o Messrs. Edwards & Son, 157 Queen Victoria Street, London, E.C.

PARTNERSHIPS.

CAPITAL wanted, in a flourishing Cash Business in the West of England; no opposition; would not object to a Partner, who need not take an active share, with £200 capital. Address, "Cepia," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PARTNERSHIP.—Wanted, gentleman with £500 to £1,000 to join in very handsome Pharmacy returning £1,000, and to open Branch in neighbouring town, where proprietor is well known, and good-class trade can be done; one proprietary has a large and rapidly increasing sale, local and otherwise. Address, "Rouge," Deacon's, Leadenhall Street, London.

TENDERS.

WINDSOR RURAL SANITARY AUTHORITY.

DISINFECTANTS.

THE Guardians of the Windsor Poor-law Union, acting as the Rural Sanitary Authority for the District of the said Windsor Union, are desirous of receiving Tenders for the supply of DISINFECTANTS of the kinds undermentioned for one year, and to be delivered at the Workhouse at Old Windsor, in the County of Berks.

It is estimated that about the following quantities will be required during the year, but the Guardians will not consider themselves limited to or bound by any particular quantity:—

20 doz. 1-lb. bars of Calvert's Carbolic Soap.
3 cwt. St. Bede's in 1-oz. packets, 4 packets to a box.
12 doz. 8-oz. bottles of Condy's Fluid.
30 doz. Calvert's 1-lb. tins of Carbolic Powder.
12 doz. 1-pint bottles of Sanitas Disinfecting Fluid.
12 doz. Johnson's 1-lb. Sulphur Fumigating Candles.

Tenders to be sent under sealed cover, marked "Tender for Disinfectants," addressed to the Clerk of the Rural Sanitary Authority, No. 4 Park Street, Windsor, and to be delivered there not later than 5 P.M. on Monday, the 31st instant. Samples must be sent to the Workhouse before 10 o'clock the following morning.

The Guardians do not bind themselves to accept the lowest or any Tender.

The person whose Tender shall be accepted will be required to enter into a contract to supply all disinfectants required during one year, in accordance with the terms of his Tender and this advertisement.

Dated this 18th day of July, 1893.

GEORGE HENRY LONG, Clerk.

APPRENTICESHIPS.

AN Apprentice wanted in a Light Retail business; indoors. Apply to R. A. Munkman, Jun., 51 West Street, Boston.

DENTAL PUPIL.—Alexander T. Scott, L.D.S., R.C.S., Dental Surgeon, Ramsgate, Kent, has a vacancy for a young gentleman as pupil; every facility for acquiring a thorough practical knowledge of the profession. For terms, address as above.

APPRENTICE or Improver required in a good-class Dispensing Pharmacy; one having passed the Preliminary necessary; every opportunity for acquiring a sound knowledge of the business under direct supervision of the principal. F. H. Bowden, Pharmaceutical Chemist by examination, Buxton.

APPRENTICE or Turnover; vacancy occurs in inland watering-place; good opportunity for obtaining a thorough knowledge of Dispensing and General Retail; time allowed for recreation, and assistance given with studies. Apply to W. Pilkington, Pharmaceutical Chemist, Market Place, Buxton (Derbys).

APPRENTICE.—Vacancy occurs for a gentlemanly youth in a good-class business, where he would have an opportunity of learning the business, also Dental Surgery; good home; no Sunday duty; time for study, &c.; moderate premium; references to former pupils. Address, J. Edmunds, Dispensing Chemist and Surgeon-Dentist, Luton, Beds.

SALES BY AUCTION.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

CHEMIST'S SHOP, No. 27 St. Nicholas Street, Ipswich, centrally situate, with convenient dwelling-house and workshops, or store-rooms; in occupation of present tenant for many years: the purchaser will have option of taking the STOCK-IN-TRADE by valuation.

ROBERT BOND & SONS will SELL the above FREEHOLD PREMISES by AUCTION, on Wednesday, August 9th, at the Great White Horse Hotel, Ipswich, at 7 P.M.
Auctioneer's Offices, Old Bank House, Ipswich.

SITUATIONS OPEN.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

ASSISTANT, not above 30; qualified preferred; outdoors: salary £2 per week. J. Williamson, 144 Church Road, Hove, Brighton.

WANTED, an Assistant, at once, for about 3 months; must be a competent Dispenser. Young & Co., Chemists, Ramsgate.

AUGUST 20; Junior Assistant, about 20. State experience and salary required to A. L. Thompson, 181 Snargate Street, Dover.

WANTED, an Assistant for the Retail Counter; outdoors. Apply, giving full particulars, to D. P. Roberts, 120 North End, Croydon.

AGENT wanted, for England and the Colonies, by a Berlin Manufacturing firm of Chemists. Address, J. G. 6572, c/o Rudolf Mosse, Berlin, S.W.

OUTDOOR Minor wanted, by Mr. Garnett, of Windermere. Send references, and state age, height, salary required, and particulars of experience.

A SHARP Junior; aged about 20; enclose photo. State height and salary required (indoors), D. Evans, Chemist, 140 Chepstow Road, Newport, Mon.

AN Assistant, of good experience, for good Family and Dispensing business; indoors. State age, height, experience, salary, &c., Hincks, Chester.

ASSISTANT (Minor qualification), for Retail Counter. Apply, stating age, experience, height, salary (outdoors), and enclose photo, Wand, Haymarket, Leicester.

AUGUST 25; Junior Assistant; unqualified; indoors; two kept. Apply, stating full particulars, to H. Hyett (late Tomlinson & Hayward), 6 Bail, Lincoln.

WANTED, Junior, for Light Retail Dispensing business in the Midlands. Apply, stating age, height, and photo, W., 71 Tollington Park, Holloway, London, N.

WANTED, a man accustomed to the preparing of Extracts, Granules, and other B.P. preparations. Apply to "Verity," c/o Messrs. Horner & Son, Mitre Square, E.C.

AT once, Junior; indoors; accustomed to Retail and Dispensing business; hours easy; no Sunday duty. Apply, stating terms, &c., to J. Rees, Chemist, Mumbles.

WANTED, a qualified Assistant for Mixed Country business; indoors. State age, salary required, experience, and enclose photo (to be returned), to Mrs. Orme, Atherstone.

WANTED, Assistant (unqualified), about 24, for good-class Country business; good references indispensable; indoors. Apply, Steward & Westover, Medical Hall, Kidderminster.

WANTED, immediately, smart Junior, for a month, outdoors. Full particulars in *first* letter, Agar Bros., Mansfield. Hours 8 to 7.30; close 1 o'clock Wednesdays; no Sunday duty.

WANTED, Assistant for one month, to put up stock and assist in Retail, near London; state terms. Address, 230/35, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT (Minor qualification), for a good-class Dispensing business. Apply, by letter, stating age, experience, references, and salary required, to Kemp, 10 Bedford Terrace, Kensington.

AN Assistant for 3 months; one accustomed to good-class Dispensing, and at liberty early. Apply, with references, height, photo, and stating when disengaged, to A. Thresh, Buxton, Derbys.

CHEMIST and Postal Assistants.—One who thoroughly understands Postal duties, and competent to take sole charge when required, whose character will bear the strictest investigation. J. Gater, Chemist, P.O., Victoria Road, Peckham, S.E.

WANTED, a capable qualified Assistant to manage a Branch; must be a good Prescriber, and have good references. Apply, stating age, salary required, and full particulars, to Wm. Fox & Sons, 109 and 111 Bethnal Green Road, London.

WANTED, the first week in August, for about a fortnight, a gentlemanly Assistant in a Country business; duties light; healthy surroundings. Apply, with usual particulars, J. Scholey, Chemist, Burnham Market, Norfolk.

ASSISTANT, Minor qualification, in a Country business, for about 2 months; aged about 25; abstainer preferred; no Sunday duty. Apply, with full particulars as to salary required, &c., to Blott, Chemist, Irthlingborough, Northamptonshire.

JUNIOR Assistant required, for a good-class Country business (indoors); must be well recommended. Please state particulars as to age, height, experience, and salary required, enclosing photo if convenient, to A. B., c/o Evans, Gadd & Co, Fore Street, Exeter.

MARGATE.—Assistant for Retail and Dispensing: about 25; good Counterman; must be very steady, and well recommended. Herbert Ray, Margate. Wanted on August 8. Indoors; state height, salary required, reference, and enclose carte if convenient.

AT once, competent Counterman and smart Salesman, about 24, to take charge of Light Cash Retail; rooms, board, and attendance provided. Please apply, with two last references, salary expected, and full particulars, to Pearson, 176 Cowbridge Road, Cardiff.

QUALIFIED Assistant (indoors) wanted, for good-class business; must be accurate Dispenser and well recommended. Please state particulars as to age, height, and salary required, sending photo if convenient, to Holman, Ham & Co, 74 High Street, Exeter.

WANTED, at once, Junior or Improver; indoors; used to brisk Retail; must be of gentlemanly manners and well recommended. Personal application preferred, but if by letter a recent photo must be enclosed, with usual particulars, to Dadson, Broadway, Manor Park, Essex.

WANTED, by August 3, a qualified Assistant, as Manager for Chemist's widow in Light Retail business; must be first-class Dispenser, Prescriber, and able to Extract teeth; hours 8 to 8.30. Apply, with full particulars, references, and photo, to Mrs. Dolman, Cheltenham.

WANTED, a qualified and gentlemanly Assistant, with good references, for an old-established Dispensing and Family business; good writing essential; state height, age, and salary required; abstainer preferred. W. W. Clark, Pharmaceutical Chemist, Dorking, Surrey.

INDOOR Assistant for a Light Retail and Dispensing business; abstainer; one accustomed to a good-class trade. Apply, stating age, height, salary, reference, when disengaged, and, if possible, enclose carte (which will be returned), to W. Pitchford, 54 Cotham Hill, Cotham, Bristol.

ASSISTANT (qualified) required, at once, for Madras; temperate and of good appearance; 3 years' agreement; first year 100 rupees per month, second 125, and third 150, with board and lodging; second-class passage paid out. Address, "Madras," c/o Street & Co., 30 Cornhill, London, E.C.

WANTED, an energetic Improver or Junior (outdoors) to put up stock, and manage warehouse generally; must be energetic, a neat wrapper, and able to attend at the counter when required. Wages required, references, and full particulars, to Oglesby's Drug Stores, Barnsley.

WANTED, the latter end of August, a gentlemanly Assistant of good address and smart business habits, for a good-class Dispensing Family business; outdoors. State age, height, salary required, and full particulars of experience, with photo, to Woollatt, Chemist, Taunton, Somerset.

DRUGGISTS' Sundriesman, with Minor qualification, young, experienced, wanted, to manage small growing Wholesale business; preference given to one with connection. Apply, stating experience and salary required, "Sundriesman," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

AN Assistant (single); pushing Counterman. State terms (indoors), age, height, with whom last and how long; if photo sent, will return; or personal application preferred, between 12 and 2 or 5 and 6, at Morris, Chemist, 23 West Green Road, Tottenham, London, N., close to Seven Sisters, Great Eastern Station.

NATAL.—A qualified Assistant for Durban; aged from 20 to 25; salary, first year, £120, second £140, third £160; bedroom on the premises provided; second-class passage paid out; must be strictly temperate and thoroughly trustworthy. Apply, "Export Department," S. Maw, Son & Thompson, 7 to 12 Aldersgate Street.

NATAL.—Assistant wanted, with Minor qualification; an excellent opportunity for good man; age must not exceed 24; must have good appearance, be civil and obliging, and a careful Dispenser; 3 years' engagement, passage paid. Write, stating full particulars, to G. F., c/o John Murdoch & Co., 82 Leadenhall Street, London, E.C.

SITUATIONS OPEN—Cont.

WANTED, Locum for 10 days from August 23. G. C., 10 Fulham Road, S.W.

JUNIOR or Improver, energetic Counterman, with good references, at once. T. C. Holford, Stratford, E.

WANTED, Assistant (25); qualified; outdoors; permanency. Apply, 36 Offley Road, Brixton Road, S.W.

WANTED, immediately, qualified Assistant for Country business; outdoors. State usual particulars and salary required, E. G. Hayter, High Street, Wimborne, Dorset.

WANTED, Junior Assistant for good-class Country Retail and Dispensing. Apply, stating age, height, salary required, and references, to T. R. Goodman, Chemist, Banbury, Oxon.

ROYAL BERKS HOSPITAL.—Wanted, at once, an Assistant Dispenser, to attend on Mondays, Wednesdays, and Saturdays, between 11 A.M. and 3 P.M.; salary £30 per annum and dinner.—JOHN T. HUGO, Secretary. 18th July, 1893.

WHOLESALE.—Wanted, an Assistant, about 25, with Laboratory experience, to proceed to South Africa; passage paid out. Apply, by letter, with full particulars, to O., c/o B. G. Lennon & Co. (Limited), 14 Bunhill Row, London, E.C.

WANTED, a good Traveller for Lancashire and Yorkshire; one with experience and connection among Co-operative Stores, Grocers, Drysalters, &c.; give full particulars. Address, 88/45, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, by a first-class Chemist in France, an Assistant; must be expert Salesman, competent Prescriber, and of good address, with knowledge of French preferred. For particulars write, enclosing photo (will be returned), to D., 29 Balfour Road, Higbbury, N.

STEELE & MARSH, Bath, require a qualified Assistant; indoors; must have been accustomed to good-class Dispensing and Retail, be well recommended, and have some knowledge of bookkeeping. Applicants will please give full particulars as to age, height, salary, also enclose carte.

DUNKLEY & ROGERS, Tunbridge Wells, will require about the 17th August, a qualified Assistant (indoors); must have been accustomed to good-class Dispensing and Retail. Applicants will please give full particulars and state salary required, also enclose carte, if possible.

WANTED, a gentlemanly Assistant, age about one or two-and-twenty for good-class Dispensing Business; state age, salary, &c.; send photo (to be returned); also vacancy for well-educated youth as Apprentice. Apply, A. G. Kenderdine, Oakfield Road Pharmacy, Clifton, Bristol.

ACTIVE, gentlemanly Assistant, about 25; select Homœopathic business; easy hours; preference to North of England man with South Coast experience. State fully previous engagements, salary (outdoors), if qualified, and send photo, to T. Robinson (late Pottage), Glasgow.

STORE Pharmacy.—Wanted, smart Assistant for the Counter; must be well up to his business, systematic, and not afraid of work. To save time, please give every particular, and enclose photo with first letter. Also Part-time Assistant, from 4 to 10 P.M. daily. Bishop & Co., 460 Holloway Road, N.

ASSISTANT.—A man, with good all-round experience, capable of taking entire charge of a good Mixed business; indoors; qualified preferred; must be steady, willing, and a good Salesman; moderate hours; no Sunday duty; half-day off 2 weeks out of 3. Full particulars, Parker, Chemist, Bridge Street, York.

WANTED, qualified Assistant (about 30) for Store Trade; permanency to suitable person; salary 40s. per week and commission. Also Junior Assistant (about 20); preference given to one accustomed to the sale of Photographic Requisites. Apply, with full particulars, to M. A., c/o Goodall Backhouse, White Horse Street, Leeds.

J. H. SPENCER (Hills Prizeman, Pharmaceutical Society), 36 Bridge Street, Chester, has a vacancy for well-educated youth as Apprentice; one who has passed Preliminary or its equivalent preferred; time for study and recreation.—Also vacancy for Junior Assistant; quick and accurate Dispenser; must be an abstainer; state salary, &c.

YOUNG, competent Assistant, for about a fortnight (middle of August), to take sole charge of small Retail and Dispensing, with post-office attached; must be an abstainer and acquainted with postal work of a T.S.O.; hours 8 to 8, except Saturday, 9.30; no Sunday work; no heavy trade. Send terms, references, and full particulars to Hinde, Grimsbury Pharmacy, Banbury.

UNQUALIFIED Assistant wanted by a large Midland firm, competent to act as Warehouseman; must be smart, active, with thorough knowledge of Druggists' Sundries and Patent Medicines; quick, correct, and have first-class character. Apply, with full particulars of age, references, and salary (outdoors), 264/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LOCUM-TENENS; wanted a qualified man for a few weeks. Apply, Blunt & Sons, Northampton.

WANTED, immediately, qualified Assistant. Reference and particulars, Theckston, New Brighton.

QUALIFIED Assistant wanted for the Midlands. Apply 146/63, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SOUTH AFRICA.—Minor man wanted. Full particulars to "Veritas," Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

QUALIFIED Assistant wanted, aged about 22 or 23 years; also Junior or Improver. Apply, stating height and salary required (outdoors), and enclose photo, to Jeans, Chemist, Moss Lane West, Manchester.

ASSISTANT (outdoors), qualified preferred, aged 25 to 30, for quick Cash business; hours 8.30 to 7.30; no Sunday duty. Apply, with particulars of age, qualification, salary, &c., to G. R. Tonlston, Chemist, Hull.

WANTED, a smart Assistant, not under 23, for London; must be a good Counterman and worker, with first-class references; salary £40 per annum (indoors). Apply, Mr. Dunn, Chemist, Parrock Street, Gravesend.

TO Chemists.—Wanted, a good and industrious young Welshman used to Country business and can Dispense; comfortable home. Apply, stating salary expected, with reference, to O. J. Jones, Apothecaries' Hall, Llanrwst.

QUALIFIED Managing Assistant for Suburban Branch, wanted about August 7; single; indoors; wages from £60 to £65. Apply personally, or by letter, with usual particulars, to W. E. Callam, 193 Borough High Street, London, S.E.

QUALIFIED Assistant wanted, at once, single (indoors), for brisk Mixed Country business. State age, salary required, experience, and enclose photo (to be returned). Address, J. Richardson, Chemist, Hadfield, near Manchester.

IMMEDIATELY. qualified Senior or Manager; indoors; must be thoroughly competent to take sole charge in absence of proprietor; large Cash business, W.; liberal salary to suitable hand seeking permanency. Apply, first instance, stating fullest particulars (none others answered), to H., Messrs. Hodgkinson & Co., 101 Whitecross Street, E.C. Also, at once, good Counterman, about 23, N.W.

SITUATIONS WANTED.

1s. for twelve words; 6d. for every six words beyond.

AS Dispenser; aged 23. M., 53 Great Marylebone Street, Portland Place, W.

AS Dental Assistant; salary 35s. "Molar," 1 Albert Terrace, Pease Street, Hull.

ASSISTANT, with view to purchase. M., c/o Wade, 9 High Street, Manchester.

LOCUM; disengaged till October. Particulars, Mitchell, Brookfield House, Hyde.

AS Assistant; aged 28; unqualified. Thomas, 6 Merrick Square, Borough, S.E.

LOCUM.—3 Leonard Terrace, Llandudo; disengaged for about 10 days after August 9.

ASSISTANT; 22; good experience; abstainer. Williams, 25 New Road, Spalding.

LOCUM-TENENS; 23; disengaged. X., Evans & Co., 60 Bartholomew Close, London.

COUNTERMAN; 21; disengaged August 7; Store trade. "Mitre," 27 Draytou Park, N.

PART or full time; outdoors; all-round experience; 33. "Solus," 27 Drayton Park, N.

LOCUM-TENENS; now disengaged; highest references. T., Evans, Gadd & Co., Exeter.

LOCUM-TENENS; 30; qualified; disengaged August 12. "Minor," 1 Park Place, Dawlish.

MANAGER; permanent; 50; married; family. W., Chemist, 785 Old Kent Road, S.E.

TEMPORARY, at present disengaged, for August; good references. Harold, Battle, Sussex.

SITUATIONS WANTED—Cont.

OUTDOOR Assistant; aged 30; highest references and good experience. W. Ream, The Elms, Long Sutton. Wisbech.

JUNIOR Assistant (temporary) for season (or permanent); Mixed experience; outdoors. Baines, Moston Street, Hanley.

BRANCH Manager or Assistant; outdoors; aged 23; height 5 ft. 9 in.; qualified. "Chemist," Tower House, Ollerton, Newark.

LOCUM-TENENS; qualified and experienced; good references; disengaged. "Chemist," 17 Vicarage Crescent, Margate.

ASSISTANT, or otherwise; aged 27; varied experience. 237/22, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER, Assistant, or Locum-Tenens; qualified; experienced; aged 37; single. X., 74 Railton Road, Herne Hill, S.E.

MANAGER or Senior; outdoors; first-class experience; highest references; aged 28. L., 155 Praed Street, Hyde Park, W.

DISPENSING Assistant to Surgeon; Locum or permanent; well experienced. "Senega," 10 Nunhead Crescent, Peckham Rye, S.E.

MANAGER, Assistant, Locum-tenens; qualified; Prescriber; Extractor; aged 46. "Alpha," Whitford Lodge, Mitcham, Surrey.

WHOLESALE and Manufacturing; as Manager or otherwise; experienced; first-class references. "Magnesium," 362 City Road, London.

SUNDRIES.—Situation wanted to make and put up Proprietaries; experienced in any capacity; low salary. Roe, 11 Powell Street, E.C.

WHOLESALE; young man, good experience, Wet or Dry Counters. For particulars, references, apply. C., 35 Cook's Road, Kennington.

DISPENSER to Surgeon; married; disengaged; 10 years in last situation. State terms, "Dispenser," 150 Raglan Street, Lowestoft.

SITUATION wanted as Improver by respectable youth; indoors; 19; height 6 ft.; 5 years' experience. Rawlins, Stogursey, Bridgwater.

YOUNG man requires a situation in Pill Manufacturing; thoroughly experienced in gelatine and ordinary coating. A. W., 8 Mount Pleasant, W.C.

OUTDOORS; unqualified; 11 years' good experience; abstainer; aged 26; height 5 ft. 8½ in. Address, "Assistant," 27 Belvedere Road, Taunton.

AS Assistant; disengaged; good Dispenser and Prescriber; aged 35; experienced in both Dispensing and Mixed trade. Address, Barnes, Whitchurch, Hants.

IMPROVER or Assistant; Chemist's Drug and Grocery, or Wholesale house; 4 years' experience; salary (indoors) £15. Address, 59 Theatre Street, East Dereham.

AS Dispenser or Retail; aged 24; Irish Licentiate; good references; 6 years' experience. L.P.S.I., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PART-TIME or Dispenser; London; studying for Minor; immediate; good references. 266/7, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

EVENING Employment wanted, from 6 to 10, as Dispenser, or take charge of business. Apply, by letter, Williams, c/o Mr. Jenkins, 2 Eversholt Street, N.W.

MAJOR Student (aged 24) seeks afternoon or evening occasional employment; first-class West-end experience. R. B., 312 Vauxhall Bridge Road, London, S.W.

AS Branch Manager or Senior; outdoors; 27; 5 ft. 10 in.; qualified; experienced. Address, 237/23, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER, Assistant, or Locum-Tenens; 20 years' varied experience; testimonials most praiseworthy. Address, "Statim," 19 New Charles Street, City Road.

AS Clerk in Wholesale Drug house; 7½ years' experience, Retail and Wholesale; good references. 253/41, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BRANCH Manager or Locum; aged 39; good appearance; disengaged 12th prox.; knows Homœopathy and Photography. A. P. S., 5 Bristol Road, Weston-super-Mare.

TRAVELLER; Drugs, Patents, or Sundries; Chemist's Assistant for 10 years; good references. Apply, 236/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LOCUM-TENENS; aged 27; disengaged August 5. 80 Cranbrook Road, St. John's.

MANAGER or Locum; now disengaged; 40. Davis, 84 Coxson's Place, Horsleydown.

SENIOR, or Manager of branch; aged 35; qualified; highest references. A. B., 34 Thornhill Square, N.

A GERMAN Assistant wants a situation in an English Apothecary's. Apply, Tscherning, Stettin, Deutschestr. 5, Germany.

LOCUM-TENENS, from Squire's, Oxford Street; aged 36; Minor qualification; disengaged. "Minor," 8 Castle Street East, W.

DRUGGISTS.—Gentleman, aged 29, Medical experience, good professional connection, desires to represent firm of Druggists. Write, A., 58 Crofton Road, Peckham.

MANAGER, Assistant, or Dispenser to Surgeon; Prescribing; Extractor; Prelim.; 15 years' experience. J. Varlow, Sunderland Street, Houghton-le-Spring Fence Houses.

AS Locum-tenens, by the day, week, or month; good all-round man and Dentist; aged 30; 15 years' experience. Carter, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER; good connection amongst Lancashire grocers and stores; drugs and sundries; London experience; faultless references; aged 30. Geo. Pope, Washington Hotel, Liverpool.

APPOINTMENT wanted as Manager or Traveller; permaneney; qualified; married; 25 years' experience in good-class; also Photography and heavy goods. Wilson, Chemist, Oxford.

WHOLESALE or Mixed Retail; long experience in both; accustomed to manage; good Dispenser and Prescriber; no objection to a temporary situation. T. A., 17 Plum Street, Seaforth, Lanes.

ADVERTISER seeks a situation in small Wholesale Chemist's or in Perfumery Department; aged 26; abstainer. Apply, A. Bishop, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, Seniorship or Management; aged 28; good Counterman and Extractor; excellent references; good appearance. Morris, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GERMAN (aged 23), wants place in Wholesale Drug business; well acquainted with German and American plants and chemicals. M. Boesel, 50 Hunter Street, Brunswick Square, London, W.C.

ASSISTANT; disengaged; 12 years' experience, London, country, and Continent; knowledge French and Photography; aged 28; height 5 ft. 9 in. C., Belle Vue, Westwood Park, Forest Hill, S.E.

IMMEDIATE.—As General Assistant or Locum; good references; moderate salary; unqualified; 42; total abstainer; varied experience; country preferred. Collis, 1 Pickering Street, Hulme, Manchester.

FRENCH Chemist and Druggist, from the Superior Pharmacy School of Paris, desires a situation as Assistant in a Pharmacy in London; best references. Address, Ricardon, Pharmacien, Hôpital Beaujon, Paris.

WILL give services in Retail establishment in return for board, lodging, and washing; 2 years' experience with Pharmaceutical Chemist in one of best Dispensaries in England; passed Prelim.; aged 20; height 5 ft. 10 in. Pratt, Woodstock.

A GERMAN gentleman (24), with 6 years' experience, wants, at once, a situation in a Wholesale Drug trade as volunteer; has a good knowledge of the English language, and can give good references. Apply to H. H., 50 Granville Park, Lewisham, S.E.

SUBURBAN Chemist, having three hours' spare time daily, would be glad to pack or prepare Proprietaries; style and accuracy, with promptness, guaranteed; 10 years' experience. 267/27, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PHARMACIST with good qualifications and varied experience, including the management of Wholesale Manufacturing Laboratory, is open to negotiate for a Partnership or similar position in the Wholesale. "Henbane," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER, aged 40, smart, energetic, 3 years with Messrs. Blondeau et Cie., of Vinolia fame, seeks re-engagement; open Sept. 1; first-rate connection in West of England, South Coast, North and South Wales, and Lancashire. Apply, "Traveller," Skeffington, Cotham Brow, Bristol.

EXPERIENCED Swiss Pharmaceutical Chemist and clever Analyst, Ph.D., desires situation as Manager or Assistant Manager in Manufacturing Pharmaceutical establishment; thorough knowledge of English and Continental Pharmacopœias; French, German, Italian, and English spoken; correspondence in these languages. Offers please forward to A. T. 26, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS WANTED—Cont.

AS Assistant; qualified; outdoors preferred; experienced. Apply, H. B., 380 Euston Road.

JUNIOR; 22; disengaged: 5 years' experience. Richardson, 95 Girlington Road, Bradford, Yorks.

JUNIOR: 21: 6 years' good experience; Dispense and Extract. Wilkes, Willow Street, Ellesmere, Salop.

JUNIOR; 23; disengaged: 6 years' experience; good refcrences. Arthur Wrigley, Hebden Bridge.

HALL qualification; aged 31; 5 ft. 7 in.; London or Liverpool. Jackson, Post Office, Romiley.

MANAGER, by day, week, or month; disengaged; qualified. A. B., 69 Adolphus Street, New Cross, S.E.

ASSISTANT: aged 22; 6 years' experience; height 5 ft. 9 in. "Chemist," 181 Snargate Street, Dover.

AS Assistant, Dispenser, or Manager, by qualified Chemist; aged 41. S. Hassall, 143 Charles Street, Hanley, Staffs.

MANAGER. Assistant, or Dispenser; aged 37; long experience; Extractor. "Alpha," Towy Terrace, Llandilo.

ASSISTANT: 8 years' experience; good references; country preferred. H. Lane, Northend, Henley-on-Thames.

LONDON.—Junior; about middle of September; 21; tall; evenings off for lectures. Tyler, 19 Foregate Street, Chester.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading which can be obtained on application.

£20 Cash Prizes offered to Retailers of Ivorine Toilet Specialities; goods on sale or return terms. Apply, Bailey's Toilet Company, Bedford.

MAGNESITE, raw and burnt, in pieces and pulverised, of superior quality, sold by J. Foerster & Co., Baumgarten, near Frankenstein in Silesia, Germany.

DENTISTRY.—Lessons given in Mechanical Dentistry, Gold-filling, Gas-extraction, &c., by a Licentiate in Dental Surgery; mechanical work in vulcanite or plate executed for the profession. For terms, address, "Professional," c/o Miss Ward, 55 High Street, Ramsgate.

AGENTS or canvassers wanted everywhere to sell new Medical Book of Prescriptions and Toilet Recipes; price 1s.; specially suitable for provincial pharmacies; will bring in business; send for copy; liberal terms; large profits, no risk. Apply, by letter only, with addressed envelope (no callers), to H. F., 43 New Oxford Street, London, W.C.

RECIPES for the manufacture of consistent Mineral Lubricating-oils, melting-point 83–84° R.; softening, glycerine-wax (best light preparations), plant glue, "Excelsior" glue (best for finishing), wool-oiling (substitute for Elain for greasing yarn, &c.); to be sold for certain districts, provinces, and countries; special installations not necessary; samples can be had. Apply to Alwin Engelhardt, 3 Carlstrasse, Leipzig.

DRUGGISTS FITTINGS.—Extensive Stock; 2,000 handsome mahogany-fronted drawers, fitted with elegant cut knobs, plate-glass bevelled-edge labels, highly got up; 10 massive Chemists' screens, made of the finest mahogany, highly polished, all sizes; 40 bent-glass counter-cases, sliding trays, various patterns; 50 mahogany counters, some with plate-glass fronts and panelled fronts, fitted at back with numerous drawers; magnificent assortment of all kinds of new and second-hand fittings; estimates given town and country. Edwards & Fothergill, 19 and 20 Old Haymarket, Liverpool.

In the Matter of the Companies Acts, 1862 to 1890,
and
In the Matter of P. Braggi & Co. (Limited).

THE Creditors of the above-named Company are required, on or before the 31st day of August, 1893, to send their names and addresses and the particulars of their debts or claims, and the names and addresses of their Solicitors (if any), to Thomas William Mills, of Nos. 9 and 11 Wilson Street, Finsbury, in the county of Middlesex, the Liquidator of the said Company, and, if so required by notice in writing from the said Liquidator, are by their Solicitors or personally to come in and prove their said debts or claims, at such time and place as shall be specified in such notice, or in default thereof they will be excluded from the benefit of any distribution made before such debts are proved.

Dated this 24th day of July, 1893.

DAVIDSON & MORRISS, 40 and 42 Queen Victoria Street, London, E.C.,
Solicitors for the above-named Liquidator.

FOR Sale.—Range second-hand drawers, 9 ft. 6 by 4 ft. high, painted fronts and gold labels, 70s.; dispensing-screen, 6 ft. long, mirror front and marble slab, second-hand, £4; handsome dispensing-screen, consisting of plate-glass tablet "Dispensing Department," with shelves and cupboard at back, 8 ft. long, 27 in. high, second-hand, £5; large marble mortar and pestle, 20s.; quantity of second-hand rounds, cheap; 4 3-gall. second-hand carboys, 30s. lot; 4 4-gall. ditto ditto, 10s. each; 6 new 4-gall. ditto, 12s. each; 4 new 6-gall. ditto, 14s. each; 2 8-gall. ditto, 17s. 6d. each; sloping plate-glass case, 36 by 18, new, 35s.; also every description of Chemists' Fittings in stock; experienced fitters sent to all parts. R. Tomlinson & Sons, Bond Street, Birmingham.

PRELIMINARY AND MINOR.

STUDENTS! Write to-day for a "Guide to Examination," gratis and post free, giving the best advice and how to prepare. Knotty Points in Latin Grammar, 1s. 6d.; Cæsar Simplified, 1s.; Metric System Simplified, 1s.; How to Write an Essay, 3d.; Equations Simplified, 1s.; Student's Herbarium, 100 specimens, 7s. 6d., post free. Mr. J. Tully (Hills Prizeman), Chemist, Hastings.

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Published at the Offices of "The Chemist and Druggist,"
LONDON AND MELBOURNE.

Printed by SPOTTISWOODE & Co., New-Street Square; and Published at the Office, 42 Cannon Street, in the City of London.—*July* 29, 1893.

Do not miss our 4-page Advertisement between pages 160, 161 in this Issue.

TO CHEMISTS!

The large demand which there is for our HOMŒOPATHIC MEDICINES renders it unnecessary for us to do more than remind the Trade of this most

PROFITABLE LINE,

Which should be stocked by every Chemist.

We have absolute proof that our HOMŒOPATHIC MEDICINES have by far the largest sale, and they can be had in any strength, from the ϕ (mother), 1*x*: 1, and upwards; and as we send daily to all the London Wholesale Houses, any parcel can be sent for enclosure to save carriage.

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(Vide our 4-page Advertisement between pages 160, 161 in this Issue),

As they tend greatly to increase the sales, and NO CHARGE WHATEVER is made FOR THE CASE.

LEATH & ROSS,

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All Colours, 1d., 3d., & 6d. each.

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A PURE, OILY, VEGETABLE EXTRACT.

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Fletcher, Fletcher & Stevenson.

Diarrhœa and Cholera.

In view of the apprehended epidemic, every Pharmacist should carefully examine his stock of Opium, and its preparations. By satisfying himself that these are in PERFECT CONDITION, of FULL STANDARD STRENGTH, and ADEQUATE SUPPLY, he will be prepared to cope with any emergency that may arise.

Liquor Opii (Fletcher).—Each minim contains 0·273, or rather more than ¼ grain Opium. The medium dose is 5 minims, which is equivalent to ⅙ grain Hydrochlorate of Morphine.

Tinct. Opii B.P.—This can be instantaneously prepared by diluting ONE volume of our LIQUOR with THREE volumes PROOF SPIRIT. WE GUARANTEE the product to yield on analysis the full B.P. percentage of Morphine.

Tinct. Opii Aquos.—For veterinary and other purposes in which a strongly spirituous preparation is not required, an "Aqueous Tincture" can be readily produced by diluting ONE volume of our LIQUOR with THREE or more volumes DISTILLED WATER (according to strength required), allowing the deposit to subside, pouring off the clear Tincture, and filtering the remainder.

Tinct. Camph. Co. B.P.—This may be prepared by dissolving 40 grains Benzoic Acid, 30 grains of Camphor, and 30 minims of Oil of Anise, in 15 fluid ounces Proof Spirit, adding 147 minims FLETCHER'S LIQUOR OPII, and diluting with proof spirit to one pint.

Prize Formulæ Mixtures.

To meet the large demand for these Mixtures, we are now supplying them in 5-gallon casks (casks free), and in 10-gallon casks (casks free and 10 per cent. discount).

PRIZE FORMULA
Cough Mixture.

℞ Liq. Morphinæ Acet., B.P. .. 15 oz.
,, Pruni Virg., FLETCHER.. 10 ,,
,, Limonis (pro Syr.), FLETCHER.. 15 ,,
,, Ipecacuanhæ .. .. 2½ ,,
Glycerini Pur. .. .. .. 40 ,,
Syrup. .. .. to make 1 gall.
DOSE.—One to two teaspoonfuls three times a day.
(NOTE.—℥i. contains ⅓₀ grain Morphia.)
In W. Qts., 10s. gall.

PRIZE FORMULA
Diarrhœa Mixture.

℞ Liq. Opii, FLETCHER .. .. 2 oz.
,, Catechu (pro Inf.), FLETCHER 64 ,,
Aq. Chloroformi Conc., FLETCHER 8 ,,
Liq. Ammoniæ, B.P. .. .. 4 ,,
Syrup. .. .. 64 ,,
Aq. Dest. .. .. to make 1 gall.
DOSE.—One teaspoonful as occasion requires, in water.
(NOTE.—℥i. contains ¼ grain Opium.)
In W. Qts., 20s. gall.

PRIZE FORMULA
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℞ Potass. Nit. .. .. .. 7 oz.
Liq. Camph. Co., FLETCHER 3½ ,,
,, Ipecac., FLETCHER .. 18 drs.
Syrup. .. .. 26 oz.
Aq. Dest. .. ..to make 1 gall.
DOSE.—One tablespoonful every four hours.
In W. Qts. 10s. gall.

PRIZE FORMULA
Indigestion Mixture.

℞ Liq. Pepsinæ, FLETCHER .. 10 drs.
,, Nucis Vom., FLETCHER 10 ,,
,, Card. Co., FLETCHER .. 10 ,,
,, Bismuthi, B.P. .. .. 26 oz.
Glycerini Pur. .. .. .. 7 ,,
Aq. Chloroformi Conc., FLETCHER 4 ,,
Aq. Dest. .. .. to make 1 gall.
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In W. Qts., 10s. gall.

PRIZE FORMULA
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℞ Liq. Podophylli, FLETCHER .. 3½ oz.
,, Nucis Vom., FLETCHER.. 7 drs.
,, Zingiberis, FLETCHER .. 7 drs.
,, Gent. Co. (pro Tinc.), FLETCHER .. 8 oz.
,, Ammoniæ, B P. .. .. 3½ ,,
Aq. Dest. .. .. 48 ,,
Syrup. .. .. to make 1 gall.
DOSE.—One teaspoonful in water three times a day.
In W. Qts., 10s. gall.

PRIZE FORMULA
Tonic Mixture

℞ Syr. Hydrobrom. c. Strychnia, FLETCHER 40 oz.
Liq. Croci (pro Syr.), FLETCHER 5 ,,
Aq. Chloroformi Conc., FLETCHER 4 ,,
,, Dest. .. .. to make 1 gall.
DOSE.—One tablespoonful three times a day, before meals.
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Offices, 21 Mincing Lane, E.C. *Works*, Holloway, London, N.

Fletcher, Fletcher & Stevenson

Prize Competition.

ENCOURAGED by the success of our Prize Competition in the last Summer Issue of The Chemist and Druggist, we now offer Prizes to the value of

Five Guineas

FOR THE BEST TWO

ORIGINAL ESSAYS

Upon the Advantages possessed by

Fletchers' Concentrated Liquors

As demonstrated from the actual daily experience of the practical Pharmacist.

NOTES.

It is obvious that the subject can be treated from many points of view, each phase affording scope for much interesting information. We do not limit competitors in their choice of topic, but suggest the following amongst others as useful subdivisions:—

1. Qualitative comparisons of Tinctures, Infusions, and Syrups, made from our Standardised Concentrated Liquors with similar preparations either purchased or home-made.

2. Examples showing saving in time, labour, and materials when our Concentrated Liquors for Tinctures are used in place of the crude drugs.

3. Comparative strength, aroma, and brilliancy of Infusions made from our Liquors, and from crude drugs.

4. Instances of the superior keeping qualities of Syrups made from our Concentrated Liquors.

5. Practical observations on the special adaptability of our Liquors for Proprietaries of all kinds.

6. Estimated annual saving effected in a brisk go-ahead business by the adoption of our Concentrated Liquors in place of the ordinary Tinctures, &c.

N.B.—MSS., which should be written on one side of the paper only, signed with a *nom de plume*, and accompanied by the real name and address of the writer in a separate sealed envelope, must reach us not later than August 31.

The Prize will be awarded as follows:—For the best Essay, Three Guineas; for the second best, Two Guineas.

The Names and Addresses of successful Competitors will be advertised in The Chemist and Druggist.

We reserve the right to make use of any Essays sent in for competition.

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"Sal-Sulphogen" (*Stevenson*)
or Solidified Sulphuric Acid.

This is a solid compound, packed in 1-cwt. iron drums (free), containing 75 % of Concentrated Sulphuric Acid (in combination with a Soda Salt), and only requires the addition of an *equal weight* of water, to produce an Acid of sp. gr. 1·400; this can then be used for Ærated Water, Metallurgical, and other operations.

To colonial firms it will be seen that "Sal-Sulphogen" shows an advantage in price, over Sulphuric Acid of fully 30 %.

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20 cases Sulphuric Acid, on deck = 30 cwt. Acid at, say, 17/6 per case	£17 10 0	40 1-cwt. drums Sal-Sulphogen, containing 75 % C.O.V. = 30 cwt., £13	£26 0 0
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To remove the "Sal-Sulphogen" from the iron drums, cut down the seams with a strong knife and hammer. The contents should then be put into a lead-lined or earthenware tank, containing the requisite amount of water.

All Requirements for the Mineral-water Trade, Ice Factories, &c. :—

Liquid Ammonia, Ether, Whiting, Fruit Essences, Soluble Essences of Lemon, Ginger Ale, &c., of guaranteed purity and flavour.

All Particulars and Special Quotations for larger quantities may be obtained upon application to

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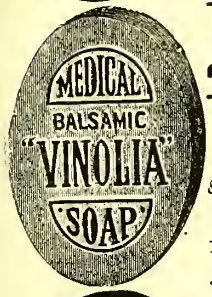
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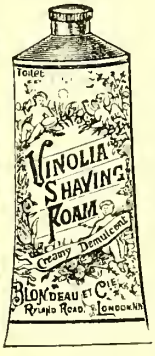


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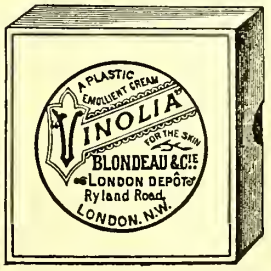


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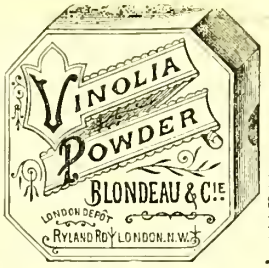
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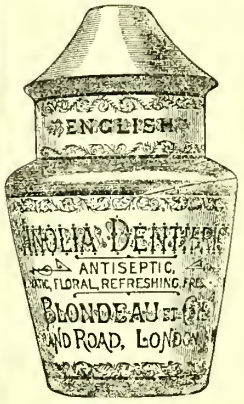
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Small	1/9	16/9
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Half size,	1/-	9/2
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English,	2/6	22/10
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Natural to the Hair.

Retail each, 5/6.
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Retail each, 1/-, 2/-, 3/6
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For the complexion. Soothing, Non-Medicinal, Demulcent.

In elegant vase,

Retail each	Per doz.
7/6	68/6



"VINOLIA" PERFUMES.

Delicate, Pure, Concentrated.

In fifteen kinds,

Retail each, 1/9, 3/-, 5/-, 9/-
Per doz., 14/-, 24/-, 40/-, 72/-

TERMS.—Orders under £2 nett. £2 to £5 Orders, 2½ per cent. and Cash Discount of 2½ per cent. (making 5 per cent in all); £5 Orders and upwards, 7½ per cent. and Cash Discount of 2½ per cent. (making 10 per cent in all), and Carriage Paid. On Orders for Premier "Vinolia" Soap of not less than £2 in value we allow our bottom terms of 7½ per cent. and 2½ per cent. Cash Discount (making 10 per cent. in all), and Carriage Paid.
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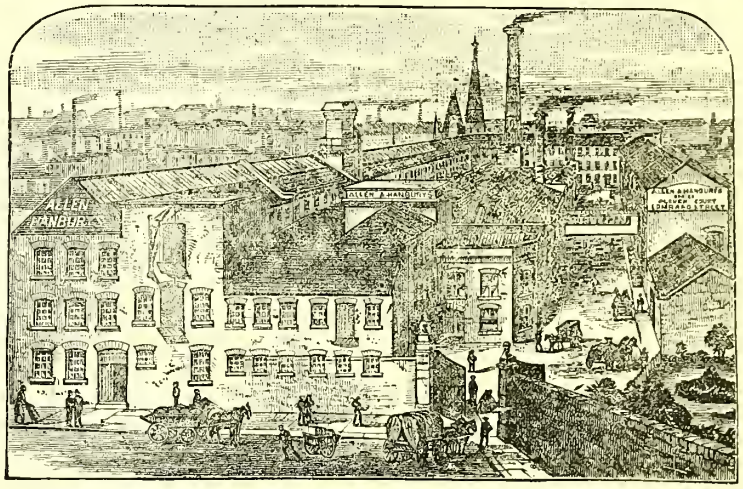
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General View of the LABORATORIES AND WAREHOUSE, Bethnal Green, E. *(to which address all communications should be sent).*

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INFUSIONS
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SOLUBLE GELATINE-COATED PILLS
EFFERVESCENT SALINE AND GRANULES
SACCHARIN, CRUDE, SOLUBLE, and COMPRESSED TABELLÆ
AND ALL
PHARMACEUTICAL PRODUCTS

Soluble Sublimate Cartridges

Seeing that Smallpox and other contagious diseases are now prevalent, and there are rumours of another Cholera soare, it is of the utmost importance that there should be no relaxation in the use of disinfectants and in the observance of necessary precautions to prevent the spread of infectious disease. Attention is naturally directed to those disinfectants which have received official or semi-official sanction.

In the memorandum issued by the Medical Officer of Health to the Local Government Board in 1888, a solution of perchloride of mercury was recommended for use in places attacked or threatened by epidemic disease, &c. That perchloride of mercury is the best disinfectant that could have been selected for the purpose will be generally conceded, but the form in which it is presented (viz., with hydrochloric acid) is open to criticism. Again, the composition of the commercial blue colour also used in this solution is so variable, and the term so extremely vague, that frequently its action on linen soaked in the solution is to stain and permanently colour, so as to render it unfit for further use.

In order to overcome all these disadvantages, ALLEN & HANBURYS, acting on the suggestion of Dr. William Murrell, Medical Officer of Health to the Local Government Board, have prepared **"Soluble Sublimate Cartridges."**

These are small muslin cartridges filled with a disinfecting charge of *sublimate*. Attached to each is a string, so that one suspended or agitated in 1 gallon of water quickly forms a pale-blue solution, as recommended by the Medical Officer of Health to the Local Government Board, for use in cleansing drains, washing floors, bedding, clothing, infected linen, &c. The blue colour used in their manufacture, for distinction and safety, is *not a stain*, and will easily wash out of linen, &c. Soluble Sublimate Cartridges are easily soluble and non-hygroscopic, and supply a want, inasmuch as they provide a cheap and efficient disinfecting fluid of definite strength and portable form, and ensure, as far as possible, safety in use.

The **British Medical Journal**, July 1, writes: — "The idea of the cartridges is ingenious, and they will be found extremely convenient for preparing corrosive sublimate solution for disinfecting purposes."

Supplied in Boxes, Six Cartridges in a Box, at (Retail) 1/3; or 12/- per dozen.

Allen & Hanburys, Plough Court, Lombard Street, London.

West-end House: 7, VERE ST., CAVENDISH SQ. *Laboratories & Warehouse:* BETHNAL GREEN, LONDON, E.
Cod Liver Oil Factories: LONGVA & KJERSTAD, NORWAY. *Australian Agency,* 484, COLLINS ST., MELBOURNE.

Allen & Hanburys

Manufacturers of

Tabellæ and Hypoderms

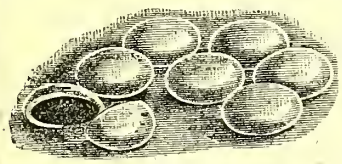
Full list of ALLEN & HANBURYS' Compressed Medicines on application. All the more insoluble kinds, such as Bismuth, Salol, Sulphonal, Exalgine, Phenacetin, &c., are made to *rapidly disintegrate* on coming in contact with moisture, thus removing the chief objection to the use of compressed drugs.



The JOURNAL OF LARYNGOLOGY writes:—"*It is this solubility of Messrs. Allen & Hanburys' Compressed Tabellæ which makes them so distinct from other preparations in the market.*"

The MEDICAL PRESS AND CIRCULAR writes:—"The great advantage of these Tabellæ is that they readily disintegrate as soon as they are swallowed . . . . a useful and important improvement in the manufacture of compressed drugs."

Such Tabellæ as contain bitter medicines, like Aloin, Cascara, Laxative Quinine, &c., are made SUGAR-COATED, these valuable, though nauseous remedies being thereby presented in a palatable and tempting form. Tabellæ of very soluble substances, and those prescribed for their local action, &c. are made as heretofore, and dissolve slowly in the mouth, the affected surfaces thus coming in direct contact with a solution of the remedy, and by the continuous action of the drug the therapeutic effect is made certain.



CASCARA TABELLÆ (*sugar-coated*).

For the above reasons it is claimed that Tabellæ of compressed drugs manufactured by ALLEN & HANBURYS are superior to any on the market. Made in upwards of 150 formulæ.

A few of the more important are:

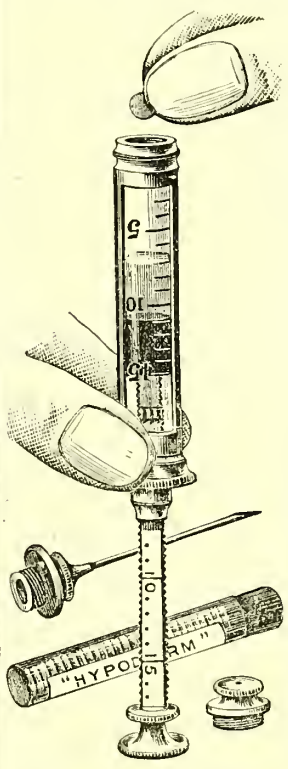
*Aloin Co. with Cascara	*Pepsine
Ammonium Chloride	Phenacetin
Ant-Acid	Potassium Chlorate
*Anti-constipation	*Quinine
Bismuth, Soda, and Ginger	Rhubarb, Soda, and Ginger
Bronchial	Saccharin
*Cascara	Salol
*Citrate of Iron and Quinine	Soda Mint
*Eastouii	¶SUBLIMATE
*Ferruginous	Sulphonal
*Ichthyol	Sulphur Comp.
*Lithia Co. (revised formula)	Voice (*see Pot. Chlor., Boracis, et Cocain*).
*Laxative	

* *Those marked with an asterisk are Sugar-coated, unless otherwise ordered.*

¶ Sublimate Tabellæ, for quickly preparing Solutions for sprays and lotions of definite strength, are sold in bottles (retail) at 9*d.* and 1/6. They will be found more readily soluble than any Sublimate Tabellæ previously offered. They produce a clear, faint blue solution, thus distinguishing them from Tabellæ which are swallowed, and avoiding the possibility of mistake.

All Tabellæ sold in *bulk* and in conveniently put-up Vinaigrette Bottles for the pocket, with name and trade mark (a plough) on label, at 1/-, 2/6, and 4/6 each (retail); 8/-, 21/-, and 40/- per dozen (except Saccharin, which re 9*d.*, 2/-, and 4/- retail, or 7/6, 21/-, and 42/- per dozen). Usual discount

It is not now necessary to point out the various advantages possessed by Soluble Tabellæ such as those we have patented and called "HYPODERMS" over the ordinary solutions for hypodermic injection. Of the many tablets now on the market we can confidently claim that none can surpass our "HYPODERMS." They dissolve rapidly in water without the aid of either heat or trituration. Careful observation proves that the materials used in their manufacture do not produce the slightest irritation, and, more important still, do not in the least affect the properties of the alkaloid or other drug used. Improved methods of manufacture have now enabled us to produce "HYPODERMS" which do not deliquesce in a moist atmosphere, and which preserve the active properties of the drug unaltered and unimpaired for any length of time.



A further great advantage lies in the fact that the solution may be most readily made in the syringe (*see block*) itself, thereby insuring that the full dose is given. Further, as the dose is determined by the "HYPODERM," the exact quantity of water taken into the syringe is not important.

The LANCET writes:—"The following advantages claimed for the 'Hypoderms' are found to be perfectly true—they dissolve easily and rapidly in a minimum of water without the aid of heat or trituration, yielding at once, if preferred, in the syringe itself a uniform solution of the drug; whilst, of still greater import, as will be seen on a glance at the table, *the precise amount of active agent stated to be contained in each hypoderm was strikingly confirmed by analysis.*" (See rest of article for exact analysis of Hypoderms June 6, 1891.)

All the more important drugs and alkaloids may be obtained in the form of Hypoderms. A complete list will be sent on application.

Other strengths and formulæ are frequently added and can be made to order. Put up in tubes at 1/- each, containing 20 Hypoderms, with a few exceptions, which contain 12 each; 10/- per dozen tubes. Usual discount.

ALLEN & HANBURYS have a great variety of Hypodermic Syringes and Cases at all prices. They can strongly recommend their Aluminium Case as being Light, Portable, and convenient in size and arrangement. It contains a best English-made Syringe, 2 Needles, Graduated Tube, Pipette, Bottle for distilled water, and fitted with 12 Tubes of Hypoderms. Price, complete, 20*s.* each. Illustrated List on application.

ALLEN & HANBURYS, Plough Court, Lombard St., LONDON

West-end House: 7, VERE STREET, CAVENDISH SQUARE. *Laboratories & Warehouse:* BETHNAL GREEN, LONDON, E.
Cod Liver Oil Factories: LONGVA AND KJERSTAD, NORWAY. *Australian Agency:* 484, COLLINS STREET, MELBOURNE

A few of the more important specialities manufactured by

Allen & Hanburys

Bynin

A very active and concentrated *fluid* Malt Extract possessing the nutritive and peptic properties of Best Malted Barley in a high degree, but free from the viscidity or treacle-like consistence of ordinary Malt Extract.

The *Lancet* writes:—"An active malt essence." "One ounce will digest perfectly one pound of starch, a most favourable result, and coupled with the fluidity and pleasant flavour, renders this a most valuable preparation."

". . . . . Must of a necessity rank high as a curative agent. Messrs. Allen & Hanburys may be congratulated on the production of a liquid malt."—*British Medical Journal*, Nov., 1885.

Bynin is distinct from the thin weak Malt Extracts offered as cheap substitutes, which are often acetous and seldom uniform in strength. (*One fluid ounce is equal to* 1 *oz. by weight of Allen & Hanburys' ordinary Malt Extract, which is sold in jars at* 1/6 *and* 2/9 *each.*) Bynin is sold in capsuled bottles only at 1/9 and 3/- each, or 16/- and 27/- per dozen. Usual discount.

Bynol "The Perfected Malt & Oil."

There is no better method of administering Cod Liver Oil, at the same time ensuring its easy assimilation, than by combining it with Malt Extract.

Both ingredients are of Allen and Hanburys' own manufacture, and are in a state of the most intimate combination attainable.

The *Lancet* writes:—"'Bynol' is one of the compounds or solutions of Malt Extract and Cod-liver Oil which are now so deservedly popular. Globules of oil cannot be distinguished. . . . The Malt Extract is well prepared, and the diastase active, and is readily shown by the ease with which starch paste is converted. The flavour is very satisfactory, and we believe that 'Bynol' will be taken and digested by many who cannot assimilate Cod-liver Oil."

The *British Medical Journal* writes:—"'Bynol' is a perfect combination of Malt Extract with Cod-liver Oil. . . . It has a pleasant taste, without any suspicion of Cod-liver Oil."

The *Medical Press and Circular* writes:—"This elegant preparation is a perfect combination of the Malt Extract and Cod-liver Oil prepared by this firm. We can highly recommend the preparation. After an extended trial of 'Bynol' we have formed a very favourable opinion of it."

It is conveniently put up in wide-month Jars at 2/- and 3,6 each, or 18/- and 32/- per dozen. Usual discount.

Byno-Hypophosphites

A great advance on (Sugar) Syrups of Hypophosphites.

A neutral solution of the Hypophosphites of Iron, Calcium, Potassium, and Manganese, and the Alkaloids of Cinchona and Nux Vomica, in combination with Bynin, Liquid Malt. One ounce contains about $\frac{1}{40}$ gr. Strychnine. More agreeable to take and valuable as a tonic than the popular (sugar) syrups so largely prescribed. The *Lancet* writes:—"This is an excellent preparation. Putting on one side its undoubted therapeutic value, attributable to the hypophosphites, the liquid malt itself not only affords an excellent vehicle in the place of the ordinary syrup, but it obviously increases this value by reason of its digestive action." In Bottles at 2/6 and 4/6 each, or 24/- and 41/- per dozen. Usual discount.

Soluble Pills Gelatine Coated.

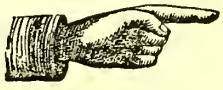
The *Drugs* are all of the highest quality, and are guaranteed pure. The *Excipients* are carefully selected; all excessive drying and hardening are avoided. The advantages of gelatine coating are found in its *solubility* and *transparency*. It is so soluble that it disappears in a very few minutes when in contact with moisture at the temperature of the body. Owing to its transparency the colours of the pills can be perfectly seen, thus avoiding the possibility of mistake.

"Excellent examples of advanced pharmacy. . . . They are readily disintegrated in the stomach, and what is even more important, particularly when dealing with powerful toxic agents, each pill contains the exact amount of medicament indicated on the label."—*The British and Colonial Druggist.*

"They are unsurpassed in elegance and ready solubility."—*The Hospital.*

Any pill may be had "pearl-coated" if desired, and quantities of 7 lbs. and upwards may be had sugar-coated.

☞ *Complete list of pills according to many hundreds of formulæ from the British and Hospital Pharmacopœias and from private prescriptions sent on application.*



The above and other of our Specialities, for the most part well known to the Trade throughout the world, are brought prominently before the notice of the Profession, and will prove to be a profitable and readily saleable stock to hold.

We shall be pleased to co-operate and correspond with Chemists who are desirous of introducing our products to Medical men in their locality; also to supply the necessary samples and literature.



Allen & Hanburys, Plough Court, Lombard Street, London.

West-end House: 7, VERE ST., CAVENDISH SQ. *Laboratories & Warehouse:* BETHNAL GREEN, LONDON, E.
Cod Liver Oil Factories: LONGVA & KJERSTAD, NORWAY. *Australian Agency.* 484, COLLINS ST., MELBOURNE.

Allen & Hanburys' "PERFECTED" Cod-liver Oil

"Is as nearly tasteless as Cod Liver Oil can be."—*Lancet.*

"No nauseous eructations follow after it is swallowed."—*Medical Press.*

The *British Medical Journal* writes:—". . . . . Cod Liver Oil which is so delicate in flavour as to be free from all the usual nauseous properties of fish oil, and has almost the delicacy of salad oil. We congratulate Messrs. Allen & Hanburys on having realised a pharmaceutical progress on the best lines of advance."

Manufactured at ALLEN & HANBURYS' Norwegian Factories from *Fresh* and *Selected* Livers *only*. It can be borne and digested by the most delicate. It is the only oil that does not "repeat," and for these reasons the most efficacious kind in use.

Sold in capsuled Bottles *only* at 1/4, 2/6, 4/9, and 9/- each, or 12/-, 23/-, 44/-, and 80/- per dozen.

Allen & Hanburys' Castor Oil

Tasteless. Pure. Active.

Pure Castor Oil of full activity, absolutely free from odour and unpleasant taste.

"It possesses all the advantages claimed for it."—*Lancet.*

The *Medical Press and Circular* writes:—"We have had the opportunity of employing this Castor Oil of Allen & Hanburys in a public hospital on a large scale. Its aperient power is complete, and it is fully appreciated by the patients, especially by children, who, finding it quite tasteless, never raise an objection to its administration."

THE CHEMIST AND DRUGGIST writes:—"By producing a tasteless and odourless Castor Oil, Messrs. Allen & Hanburys may be congratulated on having achieved a really notable triumph. Their product certainly has no trace of odour, and it is as free from taste as pure olive or almond oil."

In Bottles at 6*d.*, 1/-, 1/9, and 3/-; 4/6, 9/-, 15/-, and 27/- per dozen. *Also in bulk.*

Bynin Emulsion.

An Emulsion of Cod Liver Oil of Allen & Hanburys' manufacture with the Hypophosphites of Lime and Soda, with "Bynin" *Liquid Malt*, forming a delicious cream. It has been specially brought forward to meet the requirements of those patients who cannot assimilate pure Cod Liver Oil.

Its flavour is as agreeable as that of a well-made custard, and not the slightest trace of oil can be detected, although a very large percentage is actually present.

Containing as it does the valuable constituents of our "Mother's Milk Food" which in themselves form a COMPLETE DIET, and the Hypophosphites with their useful tonic action, it is thus a food and a tonic combined; whilst the nutritive properties of Malt and Cod Liver Oil are at the same time brought to bear on the system in a pleasant and easily assimilable form.

Unlike many Emulsions of Cod Liver Oil in the market, "BYNIN EMULSION" is so perfectly manufactured that **the Oil will not be found to separate even after months of keeping.**

It is therefore claimed for "Bynin Emulsion" to be superior to any similar preparation on account of its **Flavour, Permanence, Perfect Miscibility with milk or water, and great Nutritive Properties.**

MEDICAL OPINIONS ON "BYNIN EMULSION."

The *Journal of Laryngology* writes:—"We regard this as one of the very best preparations which have been put on the market for a long time. Children take the Emulsion greedily when mixed with a little milk."

The *Lancet* writes:—"This preparation is doubtless a valuable one. It yields highly satisfactory analytical results, and we are glad to bring it before the notice of the profession."

The *British Medical Journal* writes:—"It is a creamy liquid with a very agreeable flavour, and from a pharmaceutical point of view we consider it to be an excellent preparation. Cod Liver Oil prepared in this form can be readily taken by the most fastidious patient."

In capsuled bottles only, at 1/4, 2/6, 4/9, *and* 9/-; *or* 12/-, 23/-, 44/-, *and* 80/- *per doz.*

"First Food for Infants."

Made especially for *delicate* infants from fresh and carefully selected cows' milk, brought up as nearly as possible to the standard of human milk in casein, fat (cream), and sugar. Contains no starch, and does not clot in large curds. For use from birth to three months of age. In Jars at 1/9 each, or 18/- per dozen.

"*In our hands it has proved of the greatest service.*"—Braithwaite, July, 1893.

"Mother's Milk Food"

Consists of "First Food for Infants," as above, with the addition of small quantities of maltose and dextrine, thus supplying a slight stimulus to the digestive powers. It will be found to answer perfectly for all ordinarily healthy children. For use from either birth or three months of age to seven months. In Jars at 1/9 and 3/- each, or 18/- and 36/- per dozen.

N.B.—This and the Food above only require the addition of hot water, being complete foods and containing the milk needed.

"Malted Food."

In tins at 6*d.*, 1/-, 2/-, 5/-, and 10/-. Surprisingly beneficial results have attended the use of this well-known food, which, when mixed with milk and made as directed, affords a perfect food for infants of six months old and upwards, and is often used with great success for quite young infants. It supplies all that is required for the formation of firm flesh and bone, and should be tried when other foods have proved unsatisfactory. Descriptive leaflet on "Infant Feeding" on application. 4/10, 9/6 19/-, 46/-, and 90/- per dozen. Usual discount.

Allen & Hanburys, Plough Court, Lombard Street, London.

West-end House: 7, VERE ST., CAVENDISH SQ. *Laboratories & Warehouse:* BETHNAL GREEN, LONDON, E.
Cod Liver Oil Factories: LONGVA & KJERSTAD, NORWAY. *Australian Agency,* 484, COLLINS ST., MELBOURNE.

Allen & Hanburys,

Manufacturers of Effervescent Saline and Granular Effervescent Preparations

ALLEN & HANBURYS' GRANULAR EFFERVESCENT SALINE possesses all the advantages of an agreeable saline, combined with the anti-febrile properties of Chlorate of Potash, of which it contains a considerable percentage. In dissolving it **produces a sustained sparkling effervescence,** and **forms a bright solution of very agreeable flavour.** If kept **PERFECTLY DRY** in a well-corked bottle, it retains its properties unimpaired in any climate.

THE BRITISH AND COLONIAL DRUGGIST writes on Allen & Hanburys' Exhibits at the Chemists', Druggists', and Allied Trades' Exhibition, London, April, 1893:—"... An excellent assortment of effervescent preparations, among which may be specially noticed an effervescent saline in minute granules, which effectually obviates the caking **which render so many salines in the market** unpleasant to take."

PRICES—This **SALINE** *is supplied IN BULK at 1s. 2d. per lb.; 1s. 1d. per lb. for 28 lbs.; 1s. per lb. for 112 lbs. Also in ½-lb. bottles (to retail at 1s. 6d.), 10s. 6d. per doz., with or without labels.*

It is supplied also on the same terms with A. & Hs.' own labels and wrappers ready for retail sale.

Effervescent Granules.

Allen & Hanburys desire to draw special attention to a new series of granular effervescent preparations, the novelty of which consists in the fine and uniform granulation. It is easy to see the advantages accruing from such a condition. In the first place, the ease and accuracy with which these preparations can be measured; secondly, the uniformity of effervescence produced on the addition of water as compared with the old form of unequal-sized granules, some of which are commonly four or five times larger than the smaller granules, the patient therefore having to swallow large lumps during the effervescence has ceased. A further advantage is that



in measuring the dose, on account of the uniformity of the granules, the medicament must necessarily be more accurate than when the old-fashioned granules are measured. The upper part of a bottle containing these latter generally consists of the larger granules, and the lower part of the smaller ones, and consequently, if a dose be measured from the upper part of the bottle, the patient gets really less of the medicament than he would if measured from the lower half, in which case he would get an excess. The convenience of the bottle in which they are packed will also be noticed, as the hollow stopper is made to contain the proper minimum dose of the preparation. (*See woodcut.*)

Opinions of the Press on Allen & Hanburys' New Granular Preparations:—

THE MEDICAL PRESS AND CIRCULAR, July 5th, 1893, writes:—"... Having carefully tested these new products, it is evident that great pains have been taken in their elaboration by this enterprising firm. Good effervescent granular preparations are always popular with the public as well as with the profession, and so far as free and active effervescence, rapid and complete solubility, and general excellence are concerned, Messrs. Allen & Hanburys' latest pharmaceutical novelties can be very highly recommended. The bottles are provided with a measure-stopper—an ingenious device—designed to hold the minimum dose of the active ingredient."

THE MEDICAL TIMES AND HOSPITAL GAZETTE, July 8th, 1893, writes:—"These effervescent granules are triumphs of the pharmaceutical art, and Messrs. Allen & Hanburys are entitled to the thanks of the members of our profession for enabling them to prescribe medicines in such an agreeable and efficient form."

THE CHEMIST AND DRUGGIST, July 1st, 1893, writes:—"In contrast with many of the cheap granular preparations known in the trade, there are in Messrs. Allen & Hanburys' products no lumps and no dust. The smallness and regularity of the granules ensures a prompt and even solution. It may also be noted that these effervescent preparations are put up in bottles fitted with a new patent stopper, the upper part of which is a measure providing in each case the minimum dose of the medicine in the bottle. In the case of the citrate of magnesia this is, of course, not much more than a convenience; but it is a valuable addition to the bottle in the case of such preparations as granular effervescent antipyrin, phosphate of iron, sulphate of soda, and others."

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Cod Liver Oil Factories: LONGVA & KJERSTAD, NORWAY. *Australian Agency,* 484, COLLINS ST., MELBOURNE.

New Series Effervescent Granules.

Some of the more important are:—

Granular and Effervescent.	*Per lb.*
Ammonium Bromide	3/2
„ „ and Iron Citrate	2/8
Antipyrin, gr v. in one teaspoonful	6/8
„ gr. x. „ „	12/2
Antifebrin, gr. v. „ „	3/2
„ gr. x. „ „	3/8
Bismuth Ammonio-Citrate and Iron Citrate	3/2
Bismuth and Iron Citrate	4/2
„ and Pepsine	5/8
„ Pepsine and Iron Citrate	5/8
„ „ and Strychnine	5/8
„ „ and Quinine	5/11
„ „ and Bromide of Potassium	5/8
„ „ Iron and Strychnine	5/8
Caffeine Citrate, gr. ii. in one teaspoonful	3/8
„ Hydrobromate, gr. ii. in one teaspoonful	4/2
Carlsbad Salts	2/8
Cheltenham Salts	2/6
Cocaine Hydrochlorate	3/6
Exalgine, gr. i.	3/2
„ gr. ii.	4/2
Friedrichshall Salts	2/8
Iron Ammonio-Citrate	2/8
„ Bromide	3/2
„ Carbonate	2/2
„ Citrate	2/6
„ Iodate	3/8
„ Iodide	3/2
„ Phosphate	2/8
„ and Arsenic	3/2
„ and Magnesia Sulphate	2/8
Kissingen Salts	2/6
Kreuznach Salts	2/8
Leamington Salts	2/6
Lime Hypophosphite	3/2
„ „ and Pepsine	4/8
„ and Soda Hypophosphite	3/2
Lithia Carbonate	4/8
„ Citrate	4/8
„ „ and Potash	4/2
„ Salicylate	5/8
MAGNESIA CITRATE	1/6
„ „ second quality	1/3

Granular and Effervescent.	*Per lb.*
Magnesia Sulphate	1/8
Marienbad Salts	2/8
Nux Vomica	3/2
Pepsine, gr. v. in one teaspoonful	6/2
Phenocoll Hydrochlor., gr. v. in one teaspoonful	8/2
„ „ gr. x. „ „	12/2
Piperazin, gr. v. in one teaspoonful	28/2
„ gr. iiss. „ „	14/2
„ gr. i. „ „	8/2
„ et Phenocoll Hydrochlor., gr. v. of each in one teaspoonful	32/2
Potash Benzoate, gr. v. in one teaspoonful	3/8
„ Bicarbonate „ „	2/8
„ Bromide „ „	3/2
„ Chlorate „ „	2/8
„ Citrate „ „	2/8
„ Iodide „ „	3/2
„ Nitrate „ „	2/8
Phenacetin, gr. v. in one teaspoonful	4/11
„ gr. iii. „ „	4/2
Pullna Salts „ „	2/8
Quinine Citrate „ „	3/8
„ „ and Strychnia	4/2
„ „ and Iron, in one teaspoonful	4/8
„ „ Iron and Bromide of Potassium	5/2
„ „ „ Iodide of Potassium	5/2
„ „ „ Strychnia	4/8
„ „ and Iron Phosphate	4/8
„ Iodate, gr. v. in one teaspoonful	8/2
„ Salicylate „ „	5/2
„ and Caffeine Salicylate „	8/2
Seidlitz Mixture „	2/2
Seltzer Salts „	2/8
Soda Citro-Tartrate „	2/2
„ Hypophosphite „	2/11
„ Iodide „	3/2
„ Nitrate „	2/8
„ Phosphate „	1/11
„ Salicylate „	3/2
„ Sulphate „	1/8
„ and Magnesia Sulphate „	1/11
Strontium Bromid., gr. x. „	6/2
Vichy Salts „	2/8

THE ABOVE ARE ALSO PUT UP IN THE NEW PATENT STOPPER-MEASURE BOTTLES AT—RETAIL 1/-, 2/6, AND 4/6 EACH; WHOLESALE, 8/-, 21/-, AND 40/- PER DOZEN, SUBJECT TO OUR SPECIALITY DISCOUNT.

N.B.—The ordinary Large-granuled Effervescent Preparations will be supplied as heretofore, but at 2d. per lb. less than the above prices, unless the new and improved kind are specifically ordered under the name of "granules."

Small Samples supplied Free on Application.

Allen & Hanburys, Plough Court, Lombard Street, London.

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JOHN WYETH & BROTHER

MANUFACTURING PHARMACEUTICAL CHEMISTS.

PHILADELPHIA, U.S.A. **LONDON, E.C.: 30 SNOW HILL.**

We were the **FIRST** to introduce to the Pharmacist and the Medical Profession, a line of

COMPRESSED PILLS (OR POWDERS)

We are the **LARGEST** Manufacturers of this line of products.

The Machinery and appliances connected with our compressing department are Marvels of Perfection and Accuracy, and the Products wonderful in their Accuracy, Beauty, Style of Finish, Ready Solubility, and Permanency. We use only the **PUREST MATERIAL.** The closest attention is given to every detail of manipulation, and the whole process is under the supervision and direction of the highest commercial integrity, thus ensuring the **SUPERIORITY** of our Preparations.

THE RETAIL CHEMIST WILL DO WELL TO NOTE THAT

WYETH'S COMPRESSED PILLS (OR POWDERS)

WYETH'S SUGAR-COATED COMPRESSED PILLS (OR POWDERS)

WYETH'S SOLUBLE COMPRESSED HYPODERMIC DISCS

WYETH'S COMPRESSED OPHTHALMIC DISCS

WYETH'S BEEF JUICE AS WELL AS

WYETH'S DIALYSED IRON

WYETH'S ELIXIR DIGESTIVE FERMENTS

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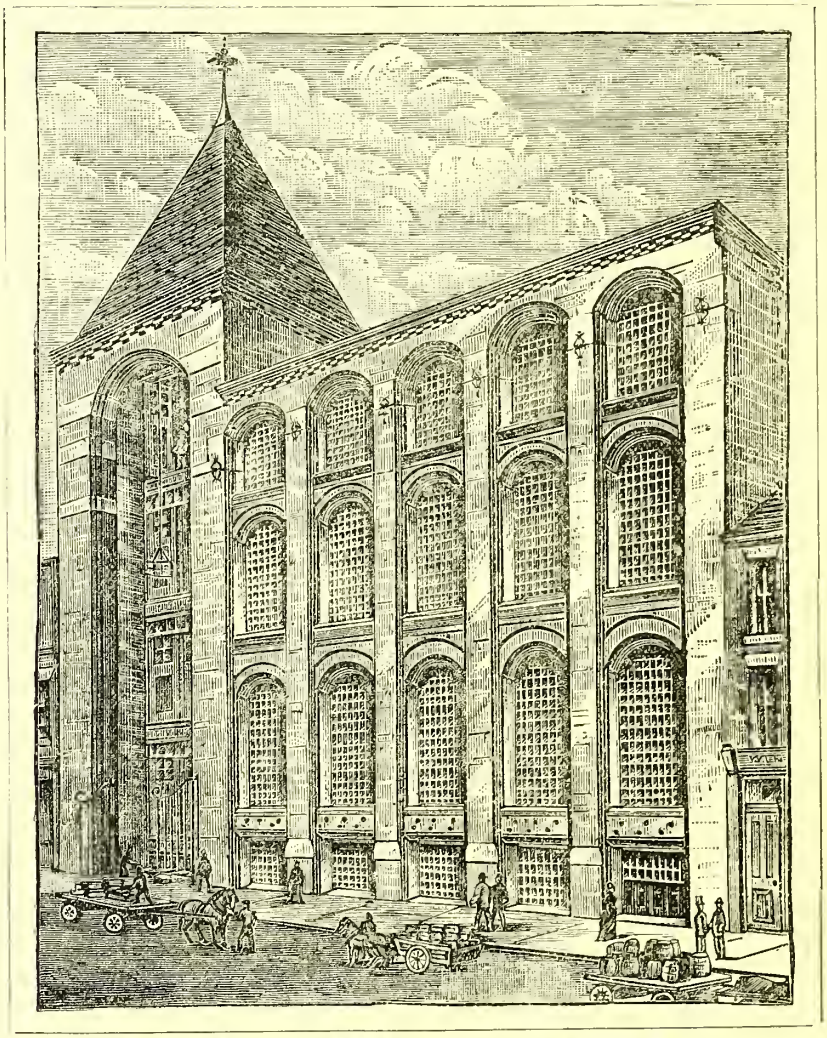
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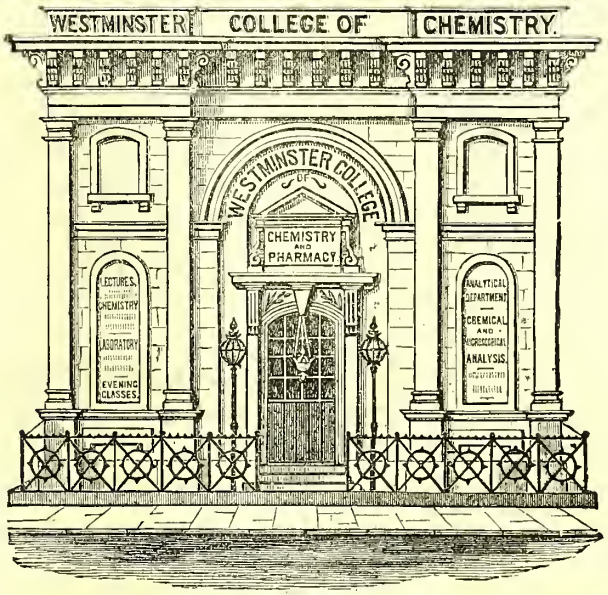
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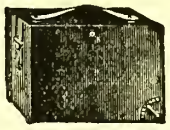
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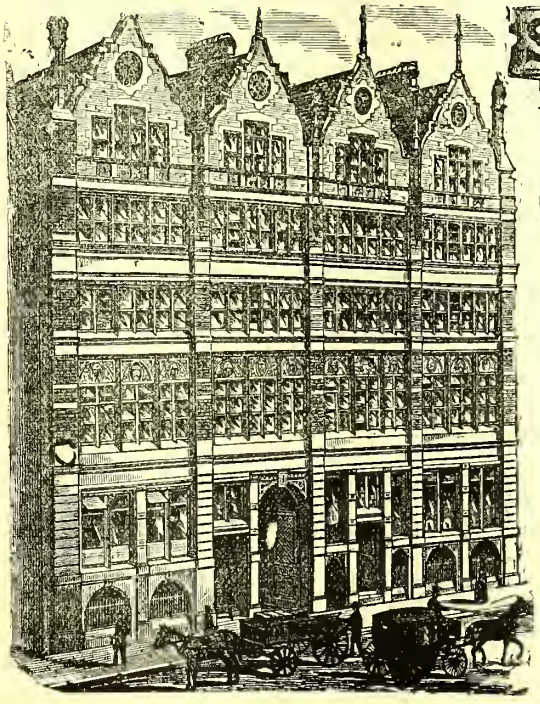
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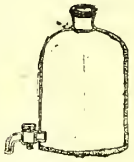
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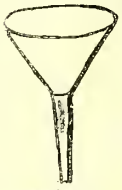
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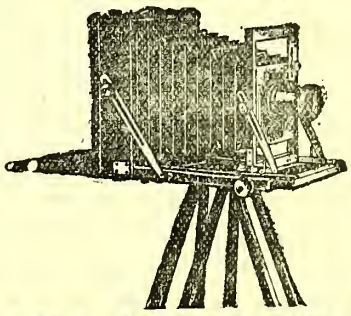
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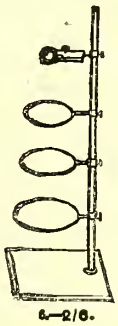
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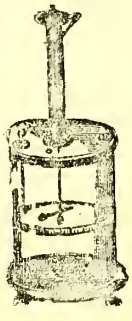
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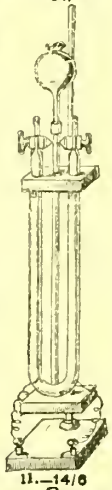
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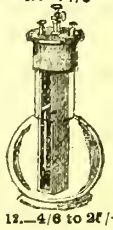
65 BARBICAN, LONDON.

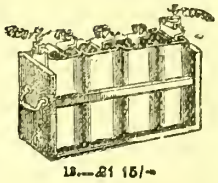


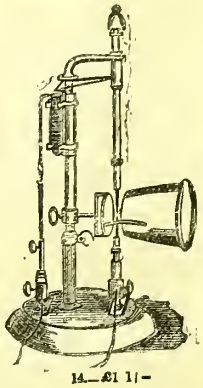
1/- to 4/6.


—21


11.—14/6


12.—4/6 to 2£/-


13.—£1 15/-


14.—£1 1/-

DARTON'S IMPROVED CLINICAL THERMOMETERS.

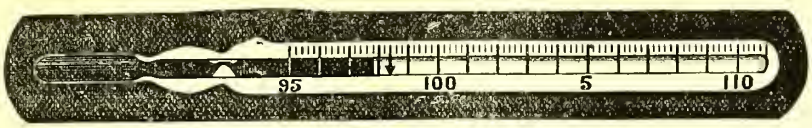
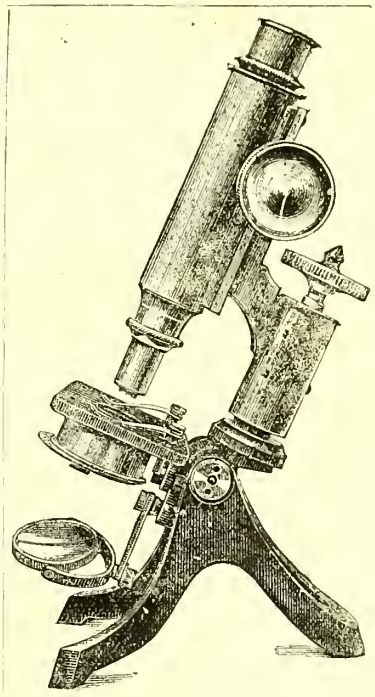


Fig. 1.

These Thermometers are constructed with an improved constriction in the bore which makes it impossible for them to be put out of order, as specially noticed by the "Lancet," "Chemist and Druggist," &c., &c.

Hospital Pattern, in German Silver Cases	18/- per dozen
Standard „ „ „ or Vulcanite	21/- „
Lens Magnifying Front, Hospital Pattern, Fig. 1, in German Silver Cases or Vulcanite	30/- „
Do., rapid action, by which readings can be taken in as short a time as 30 seconds	48/- „
Kew Certificates	12/- doz. extra

We beg to caution our clients against buying spurious imitations of our well-known goods.



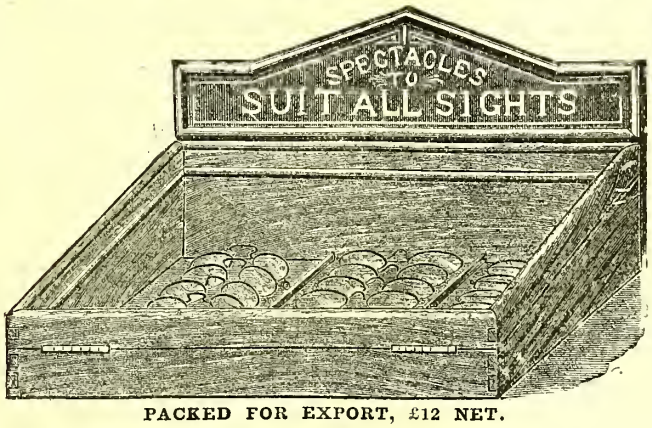
DARTON'S NEW PATTERN HISTOLOGICAL MICROSCOPE

We have effected several improvements in this well-known pattern microscope. Each instrument is now fitted with a large metal stage, with rotating diaphragm and under-stage fitting for polariscope and spot lens. The fine adjustment is of new construction, and is entirely free from any lateral motion, at the same time being exceedingly sensitive, whilst the stand is provided with a sliding adjustment in the body tube, giving a regular and easy movement while focussing.

Two objectives, $\frac{1}{2}$-in. and $\frac{1}{6}$-in. or $\frac{2}{3}$-in. and $\frac{1}{6}$-in., are supplied with the Microscope, also A and B eye pieces, giving a range of power from 88 to 614 diameters, and is guaranteed to be unsurpassed for brilliancy and flatness of field.

The whole is fitted into a well-made Mahogany Cabinet, with drawer, usual fittings, lock and key, price	Nett	£4	4	0
The same instrument, fitted with rack-work, to coarse adjustment (as illustration)	Nett	£5	5	0

DARTON'S COMPLETE EXPORT SHOWCASE, SPECTACLES AND FOLDERS.



PACKED FOR EXPORT, £12 NET.

In introducing to our Colonial friends, Spectacles, Folders, and Eye Preservers made of a non-oxidisible metal especially suited for wear in *hot climates*, we made a distinct success; the large repeat orders which we have received have satisfied us that these are the goods to push in countries where steel articles rust. The pure white non-corrosive metal is hardened and tempered to suit the requirements of Spectacle Makers, and is exceedingly comfortable to wear, having the softness of gold combined with the elasticity of steel. For the convenience of those who have not hitherto stocked Optical Goods, we have arranged a complete outfit of Spectacles and Folders to suit all sights, flat, tinted, and dome-shaped Eye Preservers, Showcase of solid mahogany, finished to stand any climate, Sight Tester, Test Type, and Coloured Showcards, packed for export and delivered f.o.b. Loudon. Contents as follows:—

(Packed for Export, £12 net.)

4 doz. white metal Spectacles, with double convex glasses.
1 „ tinted ditto, with flat glasses, blue and smoke.
2 „ pure nickel best quality Spectacles, with double convex glasses
1 „ ditto, with double concave glasses.
1 „ pure nickel Spectacles and pebbles.
1 „ pure nickel dome Spectacles, assorted blue and smoke tints.
½ doz. folding gauze-side dome-shaped Eye Preservers.
½ „ curl-side ditto, for riding.
½ „ best quality pure nickel D Eye Spectacles.
1 „ Japanese pure nickel Folders.
1 „ Canadian „ „ „
1 „ „ „ „ „ dome-tinted Eye Preservers
3 „ Leather Spectacle Cases.
1 „ „ „ „ for dome Spectacles.
3 „ Leather Fol. Cases.
Showcase Sight Tester, Test Types.

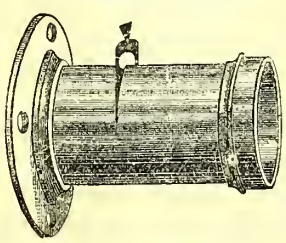


Special Frames to Oculists' Prescriptions by return of post. Repairs returned same day's post.

Write for our fully Illustrated Catalogue of Spectacles and Folders.

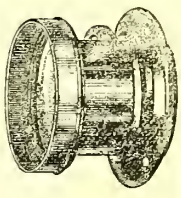


DARTON'S "EXCEPTIONAL" RAPID RECTILINEAR LENS.



This is a most useful Lens for general work in the studio, and for instantaneous outdoor photography, also for architectural subjects, groups, copying, enlarging, &c.

To cover	5×4	7×5	9×7	10×8	12×10	15×12
	20/-	28/-	45/-	60/-	90/-	110/-
With *Iris* Diaphragm	28/-	36/-	55/-			



WIDE-ANGLE RECTILINEAR LENS.

With Rotating Diaphragms for interior and architectural subjects in confined situations. To cover 5×4, 22/-; 7×5, 28/-; 9×7, 38/-.

The following Trade Lists now ready: "Spectacles and General Optics," "Photographic Apparatus," "Meteorological Instruments," "Electric Bells, Medical Batteries, &c.," mailed Free to any part of the World.

F. ARTON & CO., (Makers to H. M. Government) Clerkenwell Optical Works, **142 ST. JOHN STREET, LONDON, E.C.**

FORD, SHAPLAND & CO.

CHEMISTS' AND GENERAL PRINTERS, LITHOGRAPHERS, ENGRAVERS, &c.

6 GREAT TURNSTILE, HIGH HOLBORN, LONDON, W.C.

THE DEMON FLY LURE.

(TRADE MARK.)

A STICKY FLY PAPER.

Made in Two Sizes, to sell at Halfpenny and Penny each.

PRICES.

HALFPENNY SIZE.		PENNY SIZE.	
1 Gross	3/9	1 Gross	6/6
6 Gross	at 3/6	6 Gross	at 6/-
12 Gross	at 3/3	12 Gross	at 5/9

STICKY FLY PAPERS,

With Name and Address and Advertisements.

1,000 Halfpenny Size . 26/6 | 1,000 Penny Size . 42/-

CHEMICAL FLY PAPERS.

1 Gross, 2/6; 6 Gross at 2/3; 12 Gross at 2/-.

With Name and Address, 1,000 for 15/-; 2,000 at 14/-.

SPECIAL PRICES FOR LARGER QUANTITIES.

PICTORIAL COUNTER BILLS, on White and assorted Coloured Papers.

Printed in Colours, and Specially Designed for Chemists' Advertising.

ORDINARY COUNTER BILLS,

On Good White Paper at Lowest Prices ever offered.

10,000 CROWN OCTAVO BILLS ($7\frac{1}{2}$ in. by 5 in.) **11/6**

10,000 DEMY OCTAVO BILLS ($8\frac{3}{4}$ in. by $5\frac{1}{2}$ in.) **17/-**

ALL OTHER SIZES AT EQUALLY LOW RATES.

CABINET PAPER FOR THE WATER-CLOSET.

IN REGISTERED SHAPE BOXES AND IN PACKETS.

CHEMISTS' SLIP LABELS, from 1s. per 1,000; CHEMISTS' PILL LABELS, from 1s. 3d. per 1,000.

Labels of every description. Copper Plates for Slip and Dispensing Labels engraved free of charge.

Price Lists, Pamphlets, Circulars, Billheads, Memorandums, Cards, and all kinds of Printing and Stationery required by Chemists, at most Moderate Prices.

SAMPLES AND SPECIMENS, WITH PRICES, FREE ON APPLICATION.

Demy Paper and Wrapping Paper for Chemists, Twine, Sealing Wax, &c.

STOCK SLIP WINDOW CARDS,

Stamped in Silver, with Silvered-Bevelled Edges, on either Red, Chocolate, or Olive-Green Card. Samples 6d. each, post free.

AGENTS FOR REGISTRATION OF TRADE MARKS. DESIGNS FURNISHED IF REQUIRED.



TO CATCH THE EYE

and retain the impression is the object of a Good Circular.

BOWERS BROS.'

Printing produces the best result.

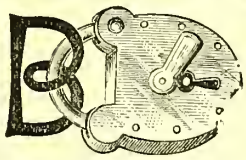
FINE SATISFACTORY APPROPRIATE. ATTRACTIVE. ARTISTIC. QUAINT. PLAIN. ODD. **PRINTING**

WHAT APPEALS MORE PERSUASIVELY?

BOWERS BROTHERS

are always at your service

We do not keep our ideas under lock and key; they are for use in all departments of our Business.



BOWERS BROTHERS

THE PRINTERS,

89 Blackfriars Rd., LONDON, S.E.

See our Inset between pages 32, 33 in this issue.

SOME DAY

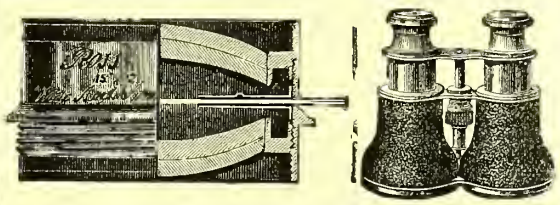
It may be Useful

To know that LARGE CONSUMERS are supplied with well designed and well printed Show Cards, Wrappers, Labels, Leaflets, and every kind of Colored Printing at low prices.

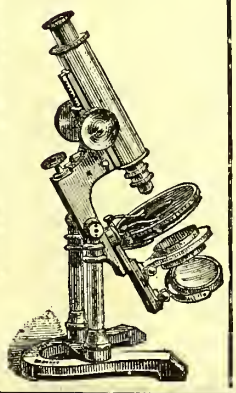
ESTIMATES GIVEN. CORRESPONDENCE INVITED.

TAYLOR BROTHERS,

Color Printers by Modern Methods, LEEDS.







ESTABLISHED 1830.

ROSS & CO.

Manufacturers of

PHOTOGRAPHIC LENSES

and Cameras of finest quality.

MICROSCOPES

and Object Glasses.

FIELD and OPERA GLASSES, TELESCOPES,

SURVEYING INSTRUMENTS, ETC.

CATALOGUES FREE.

ROSS & CO., Opticians,

111 New Bond Street, LONDON, W.

The Editor of the "Chemist and Druggist" says :—

"We have read it because "it is interesting. The ob- "ject of 'Building Business' "is to give advertisers ideas, "to show them how to make "the most of their space, "and how to get the best "return for their money. It "is a very entertaining and "instructive book, and well "worth the attention of all "who advertise."

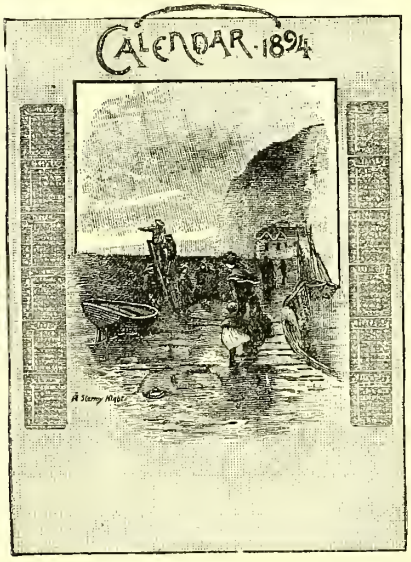
"Building Business," written by Mr. Fowler, the leading expert at advertising in America, is a handsomely bound and illustrated book of 500 pages, with 48 comprehensive chapters, embracing every department of wholesale and retail advertising, novel methods of advertising, and everything pertaining to business, with hundreds of plates and every style of advertisement writing and advertisement composition.

GUARANTEE.

Any purchaser of "Building Business," who will return the book in good condition, within 24 hours of its receipt, with a written statement that it is not worth its price, will receive by return of post the full amount of the price he paid for it.

This book of Mr. Fowler's is the only work of its kind in the world, and is published in this country by Mr. F. W. Sears, 138 *Fleet Street, London. The American price of the cloth edition, handsomely bound, is* $3.75. *The cost to business men in England, including carriage from America, and prepaid postage to any part of the United Kingdom, is* 17/-

ALBERT HILDESHEIMER



HAS A LARGE COLLECTION OF

ADVERTISING NOVELTIES

SPECIALLY PREPARED FOR

CHEMISTS AND DRUGGISTS,

NOW READY,

Specimens which could be had on application.

POCKET CALENDARS. SHOW CARDS.
CARD CALENDARS. CIRCULARS.
WALL POCKET CALENDARS. INSETS.

And every description of

HIGH-CLASS COLOUR WORK.

Special Attention given to Reproductions of Original Designs, and Estimates given.

ALBERT HILDESHEIMER, 2 & 4 New Zealand Avenue, BARBICAN, LONDON, E.C.

SILVERLOCK'S POSTAL ORDER RECORD BOOK. WITH PRINTED HEADINGS. Size 8 × 5, bound in cloth. Price 1/6, Post free.

SAMPLES FREE BY POST.

THE CLINICAL CLERKS' GUIDE TO URINE TESTING. On 8-fold linen-lined card, 9 in. by 5 in. Price 7d., Post free.

SILVERLOCK'S

CHEMISTS' SLIP LABELS

From 1/ per 1000; a reduction on large quantities.

CHEMISTS' COUNTER BILLS

Good Quality, 7½ × 5 .. 10,000, 15/ | Second Quality, 7½ × 5 .. 10,000, 12/6
„ 9 × 5½ .. 10,000, 22/6 | „ 9 × 5½ .. 10,000, 18/

SAMPLES Free by Post.

SAMPLES Free by Post.

CHEMISTS' PILL LABELS

From 1/3 per 1000; a reduction on large quantities.

COPPER-PLATES FOR SLIP AND DISPENSING LABELS ENGRAVED FREE OF CHARGE.

Labels of every description, Price Lists, Illustrated Trade Catalogues, Prospectuses, Pamphlets, Show Cards, &c.

H. SILVERLOCK,
Medical Label & General Printer,
92, BLACKFRIARS ROAD, LONDON, S.E.

THE WHOLESALE AND RETAIL DRUGGISTS' PRICE BOOK. By D. Elliott. 1891. New Edition, Revised according to the latest Edition of the British Pharmacopœia, 1890. Pocket-size, bound in leather, price 3/. This Edition can be used as a Telegraphic Code if required.

JOHNSON'S COMPENDIUM FORM, For Entering Trade Receipts and Expenses. (Specially adapted for Chemists.) Eighth Edition, Revised, price 3/6. Or for Three Years with a Three Years' Balance Sheet, bound in one Volume, price 10/6.

See our Inset between pp. 32, 33, in this issue.

HAS THE LARGEST SALE OF ANY SMELLING BOTTLE IN THE WORLD.



It is the most popular shilling article in the market, being well got up and largely advertised, commands a rapid sale, bears a large profit, and gives universal satisfaction.



Counter prescribers can recommend it with confidence for cold in the head, nervous headache, and faintness. Sent out in ½-dozen cases. Wholesale from all the Patent Medicine Depôts.



Show Cards and Handbills from MACKENZIE'S CURE DEPOT, READING, ENGLAND.

Depot for United States and Canada—THE MACKENZIE DRUG COMPANY, Ltd., CHICAGO, ILL., U.S.A.

TELEGRAMS:—"FLIES READING."

BY ROYAL LETTERS PATENT

THE NON-POISONOUS STICKY

FLY PAPER.

Well known in every Household in the Kingdom.

ANNUAL SALE MILLIONS.

THE FLY CEMETERY

BY ROYAL LETTERS PATENT. CATCHES MORE FLIES IN A DAY THAN THE OLD FASHIONED PAPERS DO IN A WEEK. SOLD ALL OVER THE WORLD. PRICE ONE PENNY

BEARS LARGE PROFITS.

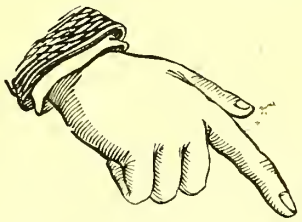
SOLD BY ALL THE LEADING WHOLESALE HOUSES.

Beware of Spurious and Worthless Imitations.

LIBERAL TERMS.

Samples and Testimonials from

TUNBRIDGE & WRIGHT, Manufacturers, READING.



FIRST-CLASS HOMŒOPATHIC MEDICINES.

3/6

per doz.

All buyers of Homœopathic Medicines should stock those only of QUALIFIED Homœopathic Chemists—a fact appreciated by the public.

"STRONG" Homœopathic Medicines can only be sold by Qualified Chemists if the remedy is mentioned either in Part I., Schedule A, and Part II., Schedule A.

LARGE BUYERS & SHIPPERS SHOULD APPLY DIRECT FOR BOTTOM PRICES.

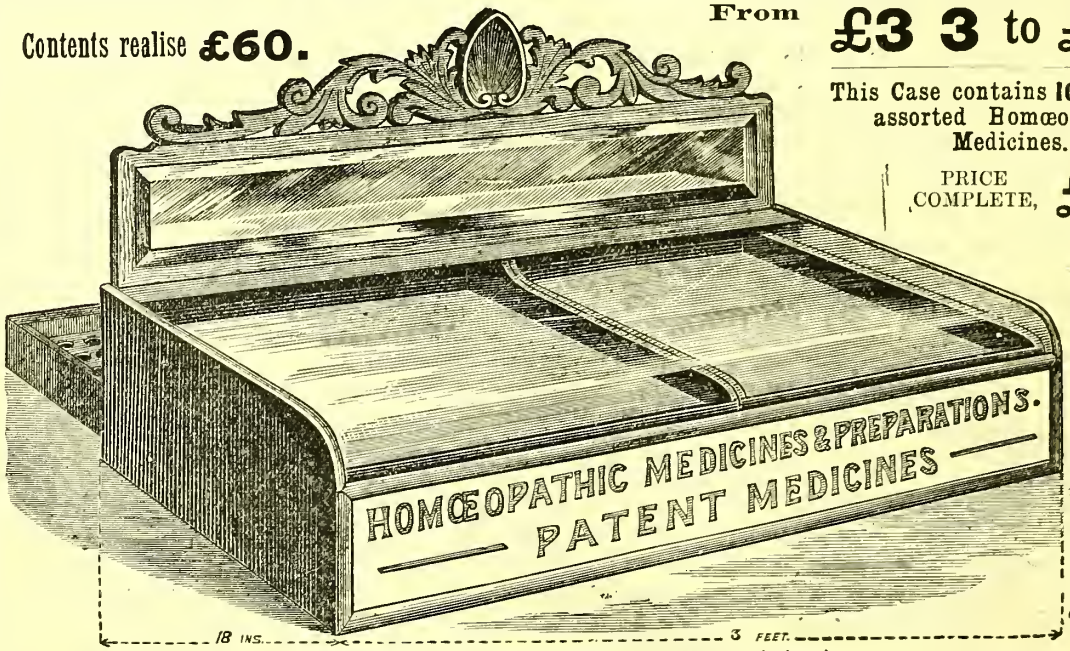
Handsome "HAHNEMANN" Cases, Upright and Bent Glass,

Contents realise **£60.**

From **£3 3** to **£21.**

This Case contains **100 DOZEN** assorted Homœopathic Medicines.

PRICE COMPLETE, **£17.**



(Dimensions—3 feet long, 18 inches wide, 18 inches to top of mirror.)

NO CHARGE FOR CASE WITH OPENING ORDER.

See also last page of this issue.

KEENE & ASHWELL, 74 NEW BOND STREET, LONDON.



PEARS

SOAP MAKERS

BY

Special Appointment

TO

HER MAJESTY

The Queen.

20 HIGHEST AWARDS. 20

Pears' Soap

RETAIL PRICES.			WHOLESALE PRICES. Per Dozen.
6d.	SIZE, unscented - - -		4s.
1s.	„	all shapes, Washing or Shaving	8s.
1s.6d.	„	Ditto ditto	12s.
2s.6d.	„	(The Washing Tablets are perfumed with Otto of Roses)	20s.
TRANSPARENT GLYCERINE	2s.	per Box of 3 Tablets	16s. Per dozen Boxes.

DISCOUNT of 20 per Cent.

On all ORDERS of NOT LESS than £5.

(GROSS TRADE-PRICE VALUE,)

If accompanied by Remittance,

[Lesser Quantities 15 per Cent. Discount only.]

IMPORTANT STATEMENT.

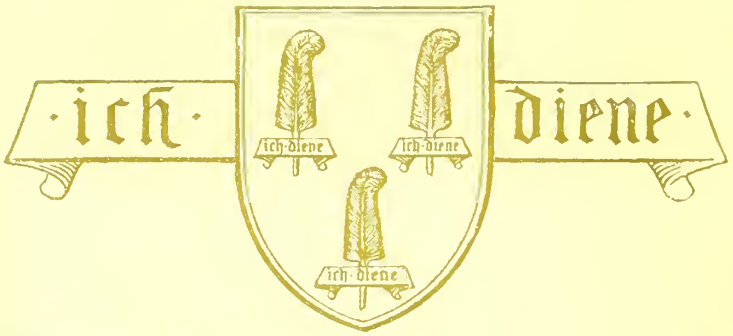
No Dealer in the Kingdom, "Wholesale or Retail," for any quantity whatever, obtains more than the above 20 PER CENT. Discount.

(Signed), *A & F Pears*

71-75, NEW OXFORD STREET, LONDON, W.C.



London Offices of A. & F. PEARS Limited, 71-75, New Oxford Street, London, W.C.



PEARS

SOAP MAKERS

BY

Special Appointment

TO

HIS ROYAL HIGHNESS THE

Prince of Wales.

COPYRIGHT.



Copyright.

WAS SAMSON THE FIRST MAN TO ADVERTISE?

We mean Samson the Israelitish warrior, the man of unequalled strength, valour, and activity in the good old days. He it was who found honey where other men could not, who played with a jawbone, and generally made things lively for his competitors.

HE HAD A LITTLE LOVE AFFAIR AT GAZA.

This was no uncommon thing in *those* days; but he got into trouble over it, and could only get out again by running away towards Hebron with the gates of the city—a very reprehensible thing for a justice of the peace to do.

UNTAUGHT BY EXPERIENCE

He fell again under the wiles of a pretty Philistine. At the feast of Dagon, he amused three thousand people of all sorts and conditions who were gathered together on the flat roofs common to the country.

AND THIS IS HOW HE ADVERTISED—

He took two whole columns to demonstrate his strength, and as such enterprise was new to his contemporaries he spread dismay around. The public "tumbled" to his scheme at once, for he brought down the house.

PRINT AND PROSPER IS A WISE OLD SAW.

At one time it was thought that advertising only brought fortunes to proprietors of pills and medicines. During the past few years, however, tea, soap, cloth, and cocoa have been largely advertised by five or six large firms, and enterprising tradesmen of all descriptions are awakening to the fact that printing makes gold. One advertising tea-merchant sells a million packets of tea every week.

THE STRONGEST AND WEALTHIEST FIRMS

To-day, owe their success to a good article and judicious advertising. No Samson-like competitor can pull down these two pillars of modern business. They establish and sustain it; and he who builds upon these pillars builds in wisdom and in strength.

WHERE INDOLENCE IS BLISS 'TIS FOLLY TO ADVERTISE.

The business-like way to get a share of what is going is to let the people know what you have to sell. Has it never occurred to you that you might, without much additional labour, profitably increase your present business by doing a little judicious advertising.—*Others do it, why shouldn't You?*

THE BEST CIRCULAR

is that which attracts attention, and leads the reader to prefer *your* goods, *your* store, *your* offer, to that of your competitor's; and competition in business was never more keen than it is to-day. This points its own moral.—*Good Printing is the worker of Business Miracles.*

BOWERS BROTHERS, THE PRINTERS,

make a speciality of attractive printing. Their work is not commonplace in appearance; it compels attention; and the big value they give makes you smile with glad surprise every time. Write for estimates before ordering elsewhere; that will cost you nothing and will open your eyes. They are always on time. They compete in quality as well as in price. Cheapness measured by excellence, not excellence measured by cheapness, are the qualities on which they rely.—*The Apparel oft Proclaims the Man.*

BOWERS BROTHERS, 89, BLACKFRIARS ROAD, LONDON, S.E.

Just the Traveller you want.



A REALLY good traveller is worth his weight in gold, or, rather, he would be if he didn't know it. That unfortunate "if" spoils the best traveller in the world, because the better he is the better he knows it. And the more convinced he is of being a really good traveller (and there never was a traveller yet who had the faintest glimmer of a doubt on that point), the higher his price becomes. Now a man of very moderate ability wants 25 per cent., all his expenses, a carriage and pair, three months' holiday in the year, an early partnership, his principal as a father-in-law, and a few other trifling advantages. Can we wonder, then, that the really clever one wants just a little more than any firm on earth can afford to give him?

There is only one absolutely perfect "Commercial" in the world. He has every necessary quality and attribute. An industry that never tires, an energy that never flags, a perseverance that never despairs, a persistence that never annoys or becomes obtrusive. He is as punctual as the clock. He commands respect because he is respectful. Courteous in manner, refined in tone, well-spoken and full of tact—to him is granted, as a right, the hearing which others have to beg as a favour.

He is equally free from vices. He never drinks, he never swears, he never loses his temper; and although his conversation is animated, instructive, and anecdotal, he has never been known to tell a *risque* story, or to say an unworthy thing. While praising the goods of his employers, he is modest as to his own merits, and can always wait until his customer is at liberty to hear what he has to say. In this way many a quiet chat does he enjoy with a likely buyer, at times and in places when some "Commercials" are attenuating the dinner hour in the billiard-room, or wasting an evening over penny "nap."

Compare for a moment this gentleman's "plan of campaign" with that of the ordinary traveller. He travels express, and goes about his work quietly and unobstrusively, yet confident of himself and the house he represents. He remains on the spot for consultation or reference at any moment. He inspires confidence because in discussing business he talks only hard facts and useful business information. He has never been known to avail himself unfairly of any connection or information; and once a firm has utilised his services they always find him a true and genuine friend, and they never forsake him.

This is the traveller which every good firm wants to get hold of, and it is, therefore, with peculiar pleasure that we refer you to Mr. EFFECTIVE CIRCULAR, c/o Messrs. BOWERS BROTHERS, of 89, Blackfriars Road, London, for further information.

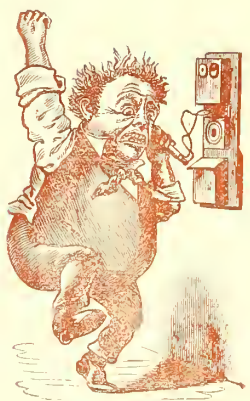


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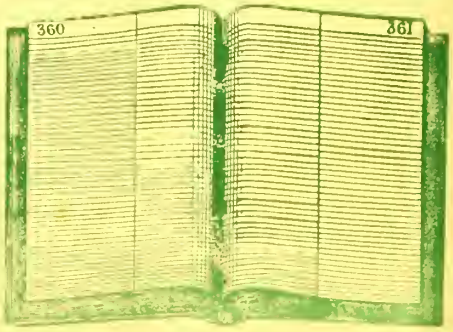
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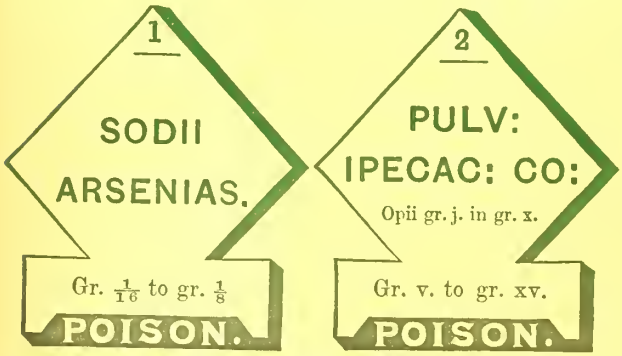
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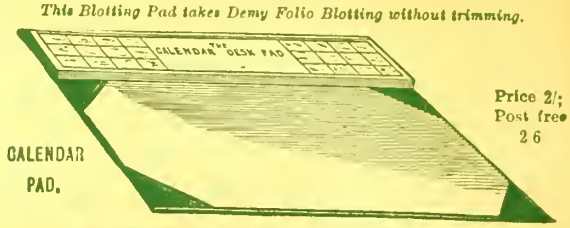
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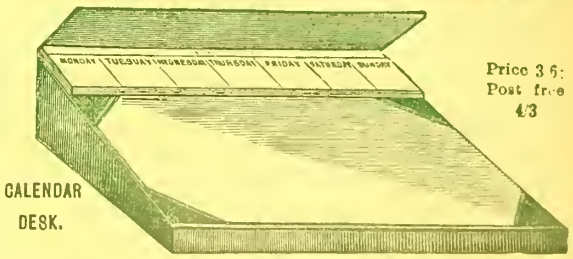
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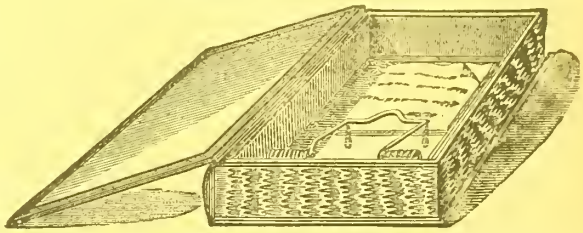


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Certificated Dispenser of Apothecaries Hall, Medallist at Westminster College.
GREEN LANES, WOOD GREEN, N.

FRAGRANT
Antiseptic
MOUTH WASH,
As prescribed and recommended by Her Majesty's Dentist.
Ten to fifteen drops in half a wine-glass of water, held in the mouth a full minute at bed-time will act as a thorough preserver of the Teeth and arrest decay.
For Smokers, use as often as required.
H. J. HUBBARD,
Chemist by Exam.,
32, ALDERNEY ROAD,
MILE END, E.

OTTO OF ROSE
COLD CREAM
PREPARED BY
ETTLES & SON,
Chemists,
GREEN'S END PHARMACY, WOOLWICH.
(Successors to F. BARRY & Co.)

CLEANLINESS & COMFORT.
GARDNER & Co.'s
Nursery
HAIR LOTION
DIRECTIONS.
To free the Head from Nits and Parasites, apply the Lotion with a piece of flannel to the Hair and Scalp.
Use every night until the Hair is thoroughly cleansed, afterwards (as a preventative) twice a week.
This Preparation is nicely perfumed, and guaranteed harmless to Children.
PRICE 6D. & 1S. PER BOTTLE.
PREPARED BY
C. E. GARDNER & CO., CHEMISTS,
Market Square, Port Elizabeth.

ORANGE
QUININE WINE
PREPARED ACCORDING to the BRITISH PHARMACOPŒIA.
THIS Preparation contains, in solution, Quinine, the active principle of Peruvian Bark, and possesses the advantage over other preparations of a similar kind of being dissolved without the aid of mineral acid. -:- -:-
In the dose of half a wine-glassful, half-an-hour before meals, it will be found an agreeable Stomachic, producing a gentle and healthy stimulus to digestion. -:- -:- -:- -:-
A wine-glassful, once or twice a day, will be found particularly grateful and efficacious in all cases in which a cordial Tonic is required. -:- -:- -:- -:- -:- -:- -:- -:-
It is especially suitable as a vehicle for the administration of Cod Liver Oil, where the combined effect of Quinine is desirable.
J. L. McALISTER,
Pharmaceutical Chemist,
25, CORN MARKET, BELFAST.

None Genuine without the Signature of the Original and Sole Maker,
Jas. L. de Faye
CHEMIST, 21, DAVID PLACE, JERSEY.

M. SMITH,
Late Thomas,
Chemist and Druggist,
70, MILL ST., TREGYNON,
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Old English
LAVENDER
Water,
OF SUPERIOR FRAGRANCE.
Distilled from the Choicest Flowers expressly for
The Toilet.
PREPARED BY
J. EUNSON,
Homœopathic Chemist, &c.,
NORTH STREET, EDINBURGH.

PURE
GLYCERINE.
For Medicinal & Toilet Purposes.
J. METHERELL, Pharmaceutical Chemist,
(LATE PASSINGHAM,)
15, ELGIN CRESCENT, W.

HAWORTH'S
GLYCERINE
AND
CUCUMBER
CREAM.
ROUGH, FRECKLED, and RED SKIN rendered — beautifully — White, Soft, and Smooth.
CHAPS, TAN & BLEMISHES — QUICKLY — REMOVED BY ITS USE.
Warranted free from Lead, Zinc, and all Poisons.
DIRECTIONS.
Apply at night, and allow to remain, repeating in the morning, and, after washing in hard water, rub a little on the skin before wiping dry.
PREPARED BY
J. HAWORTH,
Dispensing Chemist,
GRANGE ROAD, GUERNSEY.
IN BOTTLES, 1s. and 2s. 6d. each. The 2s. 6d. contains 3 small.

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"The Substitute for Codliver Oil."

PASCALL'S

GOLDEN

MALTEX

1s. Bottles 9/- per doz.
1lb. ,, 16/- ,,
2lb. ,, } 1/3 per lb.
4-lb. ,,

Sells at sight

Every Chemist should stock this 'valuable' preparation.

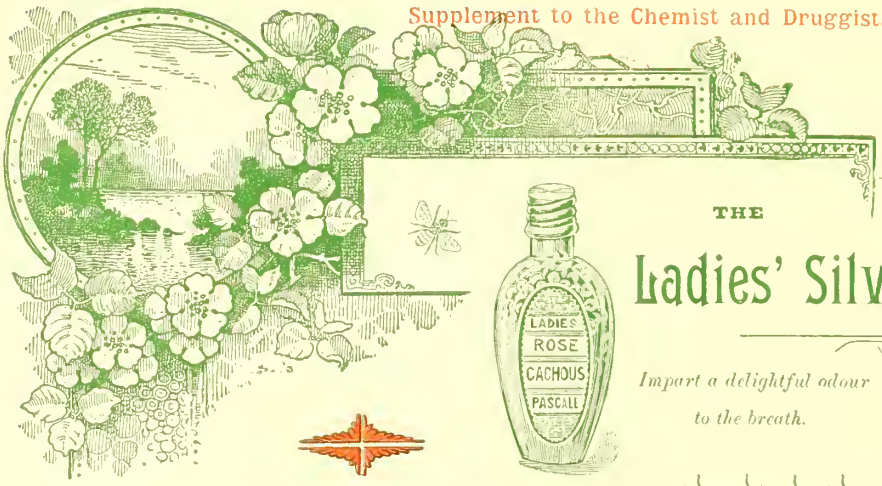
Dainty and Delicious.

Contains 25 per cent Allen and Hanburys' Malt Extract.

Of all the Wholesale Houses and of the Manufacturer,

JAS. PASCALL, Valentine Place,

LONDON, S.E.



PRETTY. NOVEL.

THE

Ladies' Silver Cachous

Rose Flavour.

Impart a delightful odour to the breath.

Per **2/3** doz.

VERY FINE

Loaf Sugar Drops

6d. per pound.

In 2-lb. and 4-lb. Bottles, also in 3d. and 6d. Bottles.

CHERRY BLOSSOM JUBES

A Popular Line.

19 per lb. *2-lb. Tins*

PASCALL'S FRUIT TABLETS

1893

VIOLET PEARLS

A refined Cachou for Ladies.

2/3 per doz.

A CHOICE VARIETY OF DELICIOUS FLAVOURS

In 4-lb. Bottles - - 8d. per lb.
In 6d. Screw-top Jars - - 4/6 per doz.

The speciality of these Tablets is that they are MADE from PURE WEST INDIA CANE SUGAR.

Write for a full Printed List of SPECIALITIES.



Barley Sugar

ROSE AND LEMON STICKS.

In Sixpenny Screw Top Jars.

4/6 per dozen.

Floral Cachous.

VERY CHOICE.

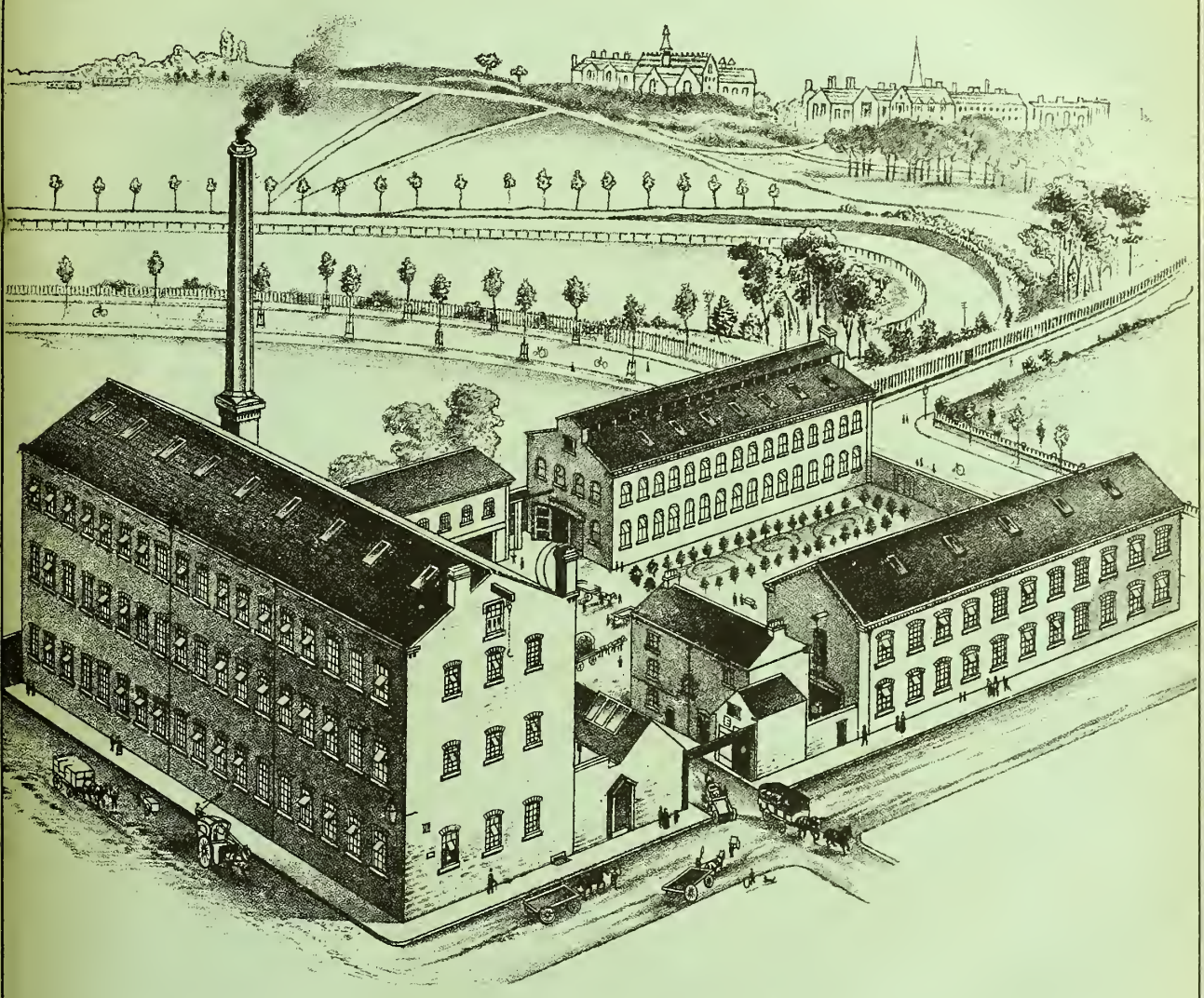
Made from Real Essence of the Flower.

In attractive Metal Cap Jars.

2/9 per pound.



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NEWBALL & MASON,

Manufacturing Chemists

And Botanic Druggists.

HYSON GREEN WORKS, NOTTINGHAM.

Telegrams, "Extract, Nottingham." **Telephone No. 532.**

Telegrams—"EXTRACT, NOTTINGHAM." ESTABLISHED 1850.

PRIZE MEDAL JAMAICA EXHIBITION, 1891.

Two Gold Medals

and

Special First Award

TASMANIAN EXHIBITION, 1891,

— FOR —

MASON'S EXTRACTS.

Telegrams—"EXTRACT, NOTTINGHAM." ESTABLISHED 1850.

LIST OF

MASON'S EXTRACTS AND WINE ESSENCES.

Extract of Herbs
„ Dandelion
„ Sarsaparilla
„ Hops
„ Ginger

Extract of Ginger Ale
Lemonine, Ciderine,
Horehoundine,
Foamine and
Winter Extract.

The above require the addition of sugar, yeast and water, as directions, and are ready for use in a few hours.

MASON'S WINE ESSENCES.

Ginger, Raspberry,
Cowslip, Strawberry,
Orange, Black Currant,
Red Currant, Lemon,
Lime Fruit, Jargonelle,
Quinine, Pine Apple,

Sarsaparilla,
Lemon Squash,
Cherry, Peppermint,
Port, Sherry,
Cloves, Elderberry,
Damson, Raisin,

Gooseberry and "Warmine."

These require the addition of sugar and water only, and are ready for immediate use.

COMPOSITION ESSENCE.

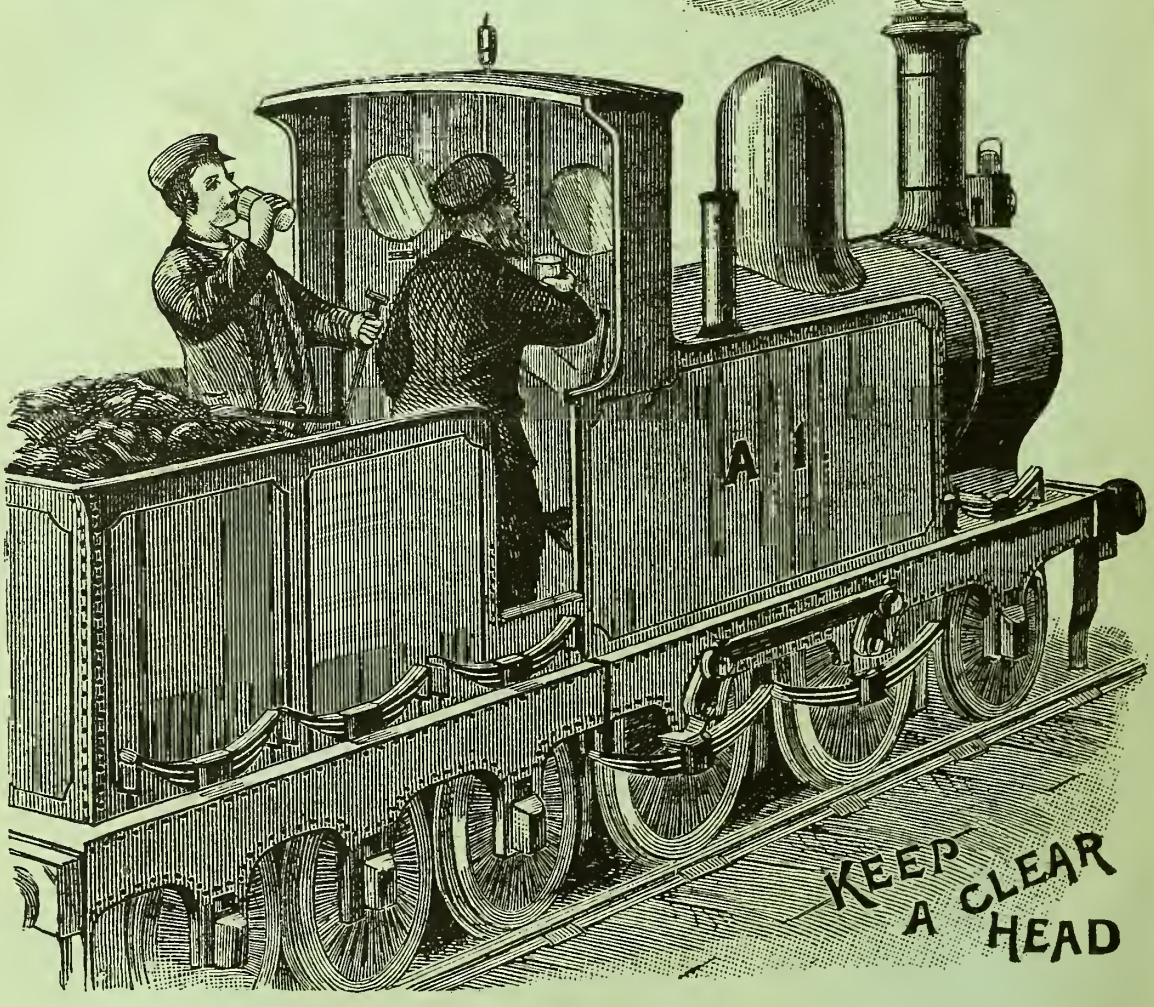
This preparation being without sediment, is much preferred to Composition Powder.

MEDICINAL HERBS IN PACKETS

The Finest Herbs, and neatly put up. Send for prices and Samples.

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MASON'S EXTRACT OF HERBS FOR MAKING NON INTOXICATING BEER



COMPOSED ENTIRELY OF HERBS

BEWARE of mean and fraudulent imitations.

BEWARE of others copying our title and labels.

MASON'S is the original and only genuine EXTRACT.

MASON'S is a special compound entirely from Herbs.

NO OTHER EXTRACT MAKES BEER LIKE IT !

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HYSON GREEN WORKS, **NOTTINGHAM.**

THE BEVERAGE OF

The World.

Cantrell & Cochrane's
AROMATIC GINGER ALE.

ENJOYING a reputation not confined to any quarter of the globe, the firm of C. & C. occupies the distinguished position of being able to defy all honest competition owing to the uniform excellence of their products. At least the knowledge that these manufacturers have been awarded THIRTY ONE Gold and Prize Medals at the various International Exhibitions. justifies the conclusion that fair and honest trading, the chief characteristic of the firm, has met its reward.

We note with pleasure that H.R.H. the Prince of Wales has ordered the waters of Messrs. CANTRELL & COCHRANE to be supplied to Marlborough House, and, as they are already Purveyors to Her Majesty's Houses of Parliament, the public may safely follow the lead of Royalty, backed up as it is by the recognition of the State.—*The Court Circular*, 12th September, 1885.

C. & C.'s AROMATIC GINGER ALE.
It shines and sparkles in the glass:
A glass no drinker wills to pass.—S. C. HALL.

31, GOLD & PRIZE MEDALS AWARDED

BY SPECIAL APPOINTMENT

TO H.R.H THE PRINCE OF WALES

BY ROYAL LETTERS PATENT

TO THE VICEREGAL COURT OF IRELAND

PURVEYORS TO HER MAJESTYS HOUSES OF PARLIAMENT

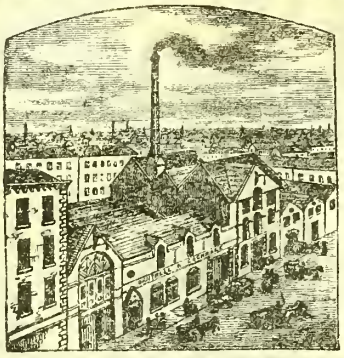


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Cantrell & Cochrane's

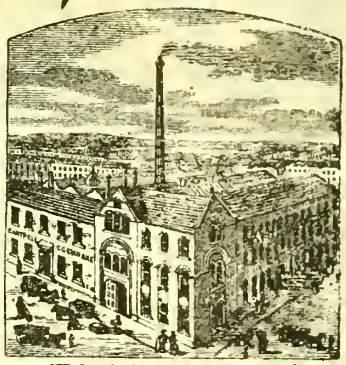
DUBLIN BELFAST.

CANTRELL & COCHRANE, MINERAL WATER MANUFACTURERS.



Works DUBLIN Thomas St.

Established A.D. 1852.



Works BELFAST Crown Building

CANTRELL & COCHRANE'S AROMATIC GINGER ALE is one of the Purest and most Wholesome Drinks in existence, being equally suitable for warm or cold weather. It invigorates and promotes perspiration, and is a warm stomachic beverage, as sparkling and clear as champagne; has a most agreeable odour, is perfectly free from any intoxicating quality, besides being pleasant to the taste and possessing a delicious "bouquet." It has an advantage over all other drinks of the same kind, inasmuch as it does not deteriorate by being decanted into glass or other jugs, thus permitting the uncorking to be performed away from the table or ball-room without the beverage becoming flat or losing its effervescence; in fact, many consumers say it is vastly improved after it has been opened some hours. This innate freshness is the result of a process of manufacture, by which the carbonic acid gas becomes thoroughly incorporated with the liquid, and does not immediately escape on the removal of the cork. Twenty-two Gold and Prize Medals have been awarded CANTRELL & COCHRANE at the various International Exhibitions, held all over the world, for the Perfect Purity of their manufacture.—*Extract from* A FRIEND TO TEMPERANCE.

BEWARE OF SPURIOUS IMITATIONS, OF WHICH THERE ARE MANY.

SUPERIOR LEMONADE.—This well-known beverage needs no encomium, the manufacture of Messrs. CANTRELL & COCHRANE, being so long and so favourably known over the civilised world.

SPARKLING MONTSERRAT This *unique* beverage has been most favourably received both at home and abroad. With the pleasant acidity of the Lime Fruit, it combines an aromatic flavour, and that proper measure of sweetness which makes certain fruits so grateful to the palate, and so refreshing to the system.

CLUB SODA WATER (Protected by Registration) was originally prepared by Messrs. CANTRELL & COCHRANE for the use of Clubs, and has now become the favourite form of this popular beverage.



MANUFACTURERS BY SPECIAL APPOINTMENT TO HIS EXCELLENCY THE LORD LIEUTENANT OF IRELAND

SELTZER WATER.—This Aërated Water, for the manufacture of which Messrs. CANTRELL & COCHRANE are so justly famous, combines the mildly alkaline and tonic saline properties of the genuine water of the Seltzer spring, with a full charge of carbonic acid, and presents them in the form of a most refreshing, exhilarating and restorative beverage, which may be taken in any quantity, as required. When a more decidedly alkaline water is required, their

KALI or POTASS WATER will be found to give the required property in a most agreeable and convenient form. In cases of Gout, Rheumatic Gout and Rheumatism, their

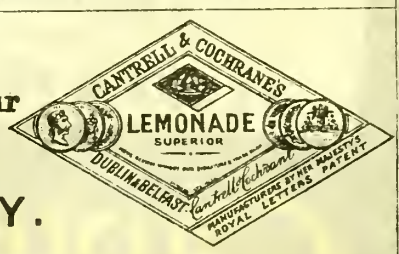
LITHIA WATER has been prescribed by the Medical Profession with most gratifying results. It is a most serviceable and palatable form of this valuable remedy.

FACSIMILES

(AS TO SHAPE)

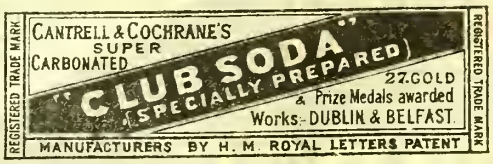
Of the Labels of some of our most famous Drinks.





A SPECIALITY.

Twenty-seven Gold and Prize Medals awarded at the various Exhibitions held throughout the World.



PURVEYORS TO HER MAJESTY'S IMPERIAL HOUSES OF PARLIAMENT.

WORKS:—DUBLIN AND BELFAST.

FOREIGN AND COLONIAL ORDERS ARE SPECIALLY PREPARED TO SUIT THE VARIOUS CLIMATES.

[P. T. O.

SOAP!! SOAP!! SOAP!!

YOU CANNOT DO BETTER THAN BUY

COOK'S

PURE · TOILET · SOAPS,

VERY PROFITABLE TO THE RETAILER.

NO CHEMIST SHOULD BE WITHOUT THEM.



All Ladies say Cook's "Riviera" is "THE VERY NICEST SOAP."

It is specially suitable for the Delicate and Sensitive Skins of Ladies and Children.

Each Tablet is tastefully wrapped and the costly perfumes are so blended as to be lasting—but not too pronounced.

In Boxes of 3 Tablets, 10/- per dozen Boxes, and of 12 Tablets, 2/11 per Box.

COOK'S

"RIVIERA" TOOTH SOAP,

An agreeable, efficient and perfectly harmless dentifrice.

3/6 per Dozen Boxes.

SEE OVER

COOK'S

"HYGIENIC" TOOTH SOAP,

(Recommended by the Faculty and prepared on the formula an advice of a well known London Dentist).

It will be found to be not only a most efficient cleanser of the Teeth, but exceedingly pleasant and refreshi in use. It consists of a combination of the purest and best soap, with *a mouth wash* which is acknowledged by hi authorities to be a most efficacious disinfectant and germ destroyer and at the same time is perfectly harmless its nature.

IN WHITE PORCELAIN BOXES, specially prepared, 7/- per Dozen Boxes.

COOK'S "SAVON DE LUXE"

Is not only harmless, but positively grateful to the tenderest skin. It is absolutely free from excess of alkali and super-fatted. It has been tested by several eminent medical men, who have pronounced it a most valuable toi preparation. It has been truly stated that it is

THE MOST LUXURIOUS SOAP MADE.

Musk, Violet, Lavender, Patchouly, The Queen's Bouquet, at 24/- per Doz. Boxes of 3 tablets eac

THE THREE ROSES (White Moss, Marechal Niel, La France) 25/- „ „

Each Tablet exquisitely scented, luxurious in use and wrapped in a very handsome wrapper.

COOK'S GOLD MEDAL ANTISEPTIC SOAP

(THOMSON'S PATENT).

Recommended by the Highest Medical Authorities for curing and alleviating all kinds of Skin Diseases, and as

THE ONLY EFFICIENT GERM DESTROYER.

In ¼ Gross Boxes 10/6 per Box, and in Boxes of 3 Tablets each, at 12/- per Dozen Boxe

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SPECIALITIES MADE FOR THE TRADE.

6 Gold and Prize Medals have been awarded at Great Exhibitions for Purity of So

To EDWARD COOK & CO., LONDON.

ESTABLISHED OVER 100 YEARS. **CONTRACTORS TO H.M. GOVERNMENT.**

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MR. THEO. RICKSECKER

Perfume Manufacturer,

NEW YORK CITY.

UP to the time of our going to press Mr. RICKSECKER'S copy had not arrived, and as we know that he is anxious that the first advertisement of his series should appear in this issue, we fill up the page for him.

Mr. RICKSECKER is one of the most popular Manufacturers of Perfumes in the States. His Perfumes are well known in England, too, and LYNCH & CO. (Limited), Aldersgate Street, London, have been Agents for them for many years.

Mr. J. F. SLADE, one of Mr. RICKSECKER'S Representatives, is to visit England this Summer, partly on Business, partly on Pleasure. He may give you a call.

RICKSECKER'S PERFUMES are the only kind allowed to be sold in The Great World's Fair at Chicago. A Syndicate purchased the right to sell Perfumes there, and, after trial, they selected RICKSECKER'S. They are also the only kind used there for the Automatic Machines.

The Perfumes are put up in the handsomest style possible; that, in fact, with high quality, is what Mr. RICKSECKER aims at in all his Manufactures—

SOAPS, DENTIFRICES,

TOILET WATERS, HAIR PREPARATIONS, ETC.

Write to LYNCH & CO. (Limited) for terms and samples, or direct to Mr. RICKSECKER.

H. GILBERTSON & SONS,

Proprietors—R. D. DIXON, JOHN DOWELL, A. B. V. TAFFS.

Manufacturers & Druggists' Sundriesmen.

ILLUSTRATED PRICE LIST SENT ON APPLICATION.

Special attention of the Trade is called to

GILBERTSON'S 118583 DISPENSING BOTTLES.

Original Best Quality bears **GILBERTSON** on bottom of each Bottle as a guarantee of Superior Tint and Finish.
118583

GILBERTSON'S CHERRY TOOTH PASTE,

3/9 and 7/- per dozen.

Chest and Lung Protectors	Glycerine Jelly	Menthol
Inhalers	Camphor Roll	Spray Producers
Bronchitis Kettles	Lip Salve	Thermometers
Hot Water Bottles	Respirators	Smelling Bottles, &c. &c.

GILBERTSON'S LITTLE ROSEBUD'S FEEDING BOTTLES

Abdominal Belts, Elastic Stockings,
Air-proof Cushions, Pillows and Beds, Bathing Caps, Suspensory Bandages,
Bedpans, Bed Sheeting.

GILBERTSON'S Boat-shape Rgst. No. 113236 Feeding Bottles.

BOTTLES IN BOXWOOD CASES, MEDICINAL CAPSULES,
TOOTH BRUSHES, SHAVING BRUSHES, HAIR BRUSHES,
CAMEL-HAIR BRUSHES.

GILBERTSON'S COURT PLASTERS.

Ear Syringes, Black Enemas without Seams,

LINT, COTTON WOOL, BANDAGES.

GILBERTSON'S GLOBULAR LAVENDER SALTS.

THESE GOODS ARE UNEQUALLED IN QUALITY AT PRICES CHARGED.
SPECIAL DISCOUNTS FOR QUANTITY.

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Telegraphic Address—"FRANGIPANI LONDON."

WEDDING GIFT.

Messrs. REECE & CO., Chemists, 168 Piccadilly, having obtained permission to present some Lavender Water and Eau de Cologne to the Princess May as a Wedding Gift, sent these to her in two very Handsome Cut-glass Bottles, as represented in the engravings.



These Bottles were Designed, Made, and Cut expressly for this purpose

BY

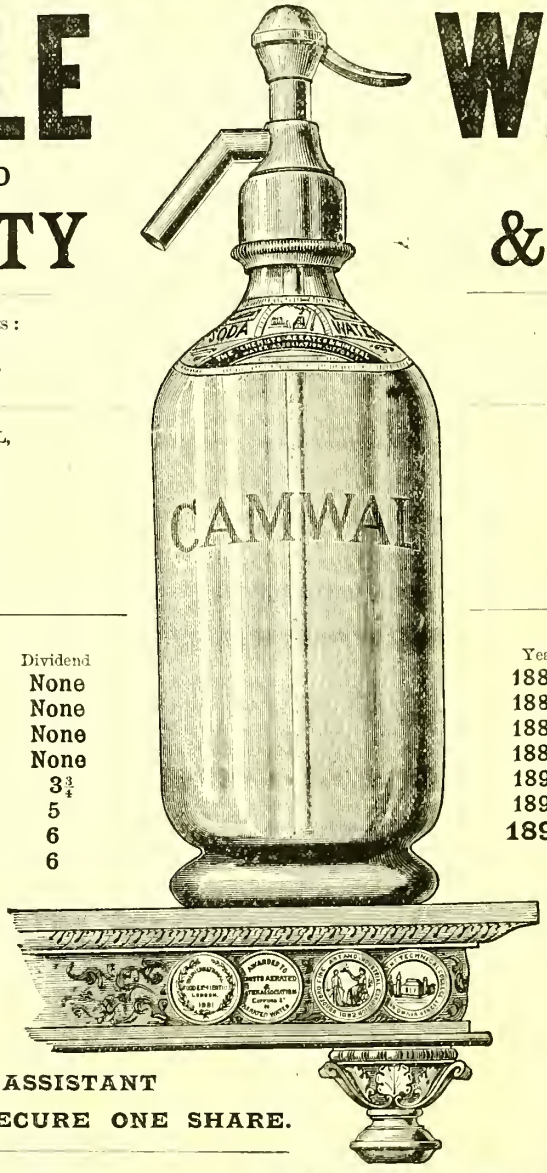
H. GILBERTSON & SONS, 11 St. Andrew's Street, HOLBORN CIRCUS, **LONDON.**

Awarded the ONLY Gold Medal, Birmingham, April, 1893.

TRADE "CAMWAL" MARK.

TABLE WATERS

UNSURPASSED FOR QUALITY & PURITY



TELEGRAPHIC ADDRESSES:
"Rubine London."
"Camwal Bristol."

ONLY PRIZE MEDAL,

LONDON, 1881.

Year	No. of Members	Dividend
1878	119	None
1879	350	None
1880	430	None
1881	540	None
1882	615	3¾
1883	708	5
1884	908	6
1885	1,193	6

The Secretary has a few £1 Shares to transfer at 25/6 each.

Only 1 share can be transferred to each applicant.

EVERY CHEMIST'S ASSISTANT SHOULD SECURE ONE SHARE.

TELEGRAPHIC ADDRESS:
"Chemists Starbeck Harrogate."

HIGHEST PRIZE MEDAL,

BRADFORD, 1882.

Year	No. of Members	Dividend
1886	1,463	6
1887	1,612	7½
1888	1,892	5
1889	2,031	7½
1890	2,088	8¾
1891	2,134	10
1892	**2,312**	**10 %**

For prices and particulars, apply to Secretary, 45 Gifford Street, London; also Sun Factory, Bristol; and Montpelier Works, Harrogate.

SAMPLE CASES OF WATERS SENT FREE TO CHEMISTS.

The ONLY Company that supplies EXCLUSIVELY to CHEMISTS and HOSPITALS Manufactured Mineral Waters of the Highest Excellence and Purest Quality, and of Specified Formula.

This Company now numbers over 2,300 Members, and is steadily increasing. Dividends for past two years 10 PER CENT.

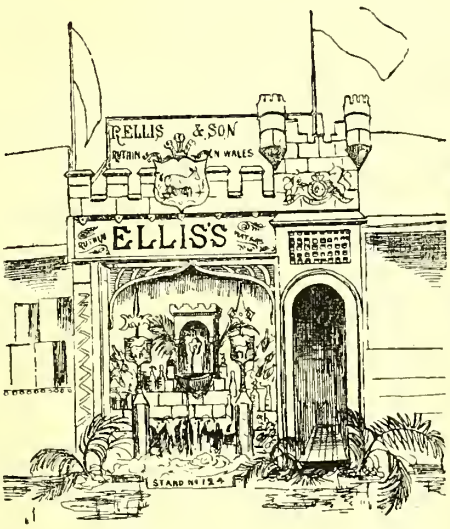
THE CHEMISTS' AERATED & MINERAL WATERS ASSOCIATION,

LIMITED,

LONDON, HARROGATE, MITCHAM, & BRISTOL.

ELLIS'S

EXHIBIT AT THE



ROYAL AGRICULTURAL SOCIETY'S SHOW, CHESTER, 1893.

SODA WATER.
POTASS WATER.
SELTZER WATER.

TABLE

CHAMPAGNE LEMONADE.
GINGER ALE, Dry and Aromatic.
QUININE TONIC WATER.
AND
OTHER AERATED WATERS.

WATERS

SOLE ADDRESS:

R. ELLIS & SON, RUTHIN, NORTH WALES.

London Agents—W. BEST & SON, Henrietta St., Cavendish Square.

"FRANZ JOSEF" WATER.

(Hertz & Collingwood's Concession.)

Natural Aperient. Strongest in the cathartic salts, and, fortunately, it happens to be not unpalatable.

"LEVICO" WATERS.

(Concession of Hertz & Collingwood.)

Natural Arsenio Ferric Water. Two strengths (the mild and strong). In "Health Springs of Germany and Austria," Dr. Buckland writes of LEVICO: "It has been found very useful in Chlorosis and Anæmia due to Hæmorrhage, Wasting Diseases and Malaria, in Scrofula and Syphilis, in Chronic Eczema, Lichen Planus, and Lichen Ruber."

ELEGANT SHOWCARDS OF FRANZ JOSEF OR LEVICO FREE TO CHEMISTS.

BURROUGHS, WELLCOME & CO.,
Snow Hill Buildings, London.

ROSBACH & FRANZ JOSEF CO.,
347 Fifth Avenue, New York.

Of INGRAM & ROYLE, and all Mineral Water Vendors.

"ROSBACH" TABLE WATER

(Concession of Hertz & Collingwood.)

Sparkling, delightful beverage. No Salty taste. Excellent by itself, and admirable mixed with milk, malt extract, wine, or spirits.

SAMPLES FREE TO THE MEDICAL PROFESSION THROUGH CHEMISTS.

ROSBACH WATER SYNDICATE (Ltd.),
4 Sussex Place, London, E.C.

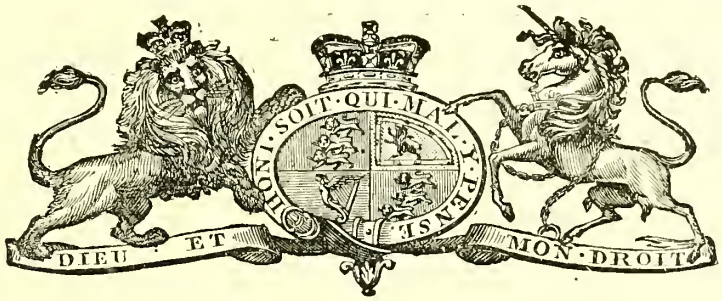
ROSBACH & FRANZ JOSEF CO.,
347 Fifth Avenue, New York.

Of INGRAM & ROYLE, and all Mineral Water Dealers.

IDRIS TABLE WATERS

The PUREST and the BEST.

Purveyors of Table Waters by Royal Warrant



of Appointment to Her Majesty the Queen.

IDRIS SODA WATER. Brilliant, Pungent, and Sparkling.
IDRIS POTASH WATER. Prepared according to the British Pharmacopœia.
IDRIS SELTZER WATER. Pure and Delicious Table Water.
IDRIS LITHIA WATER. Of Guaranteed Strength.
IDRIS GINGER BEER. Aërated or Brewed.
IDRIS GINGER ALE. A remarkably grateful Aromatic Beverage, particularly suitable for meals, improving the appetite and aiding the digestion.
IDRIS LEMONADE. Pure, fruity flavour of ripe lemons.
IDRIS ORANGE CHAMPAGNE. Made from the fruit.
IDRIS HOP ALE. Non-Alcoholic.
IDRIS QUININE TONIC WATER. A refreshing tonic.
IDRIS OLYMPIA WATER. A Carbonated Distilled Water. [2]

IDRIS LIME JUICE CORDIAL.
IDRIS PURE LIME JUICE.
IDRIS LIMETTA.
IDRIS PALATABLE LIME JUICE.
IDRIS FRUIT CORDIALS. (20 varieties.)

IDRIS TABLE WATERS IN SYPHONS AND BOTTLES.

IDRIS & COMPANY, LTD.

PRATT STREET, CAMDEN TOWN.

BEFORE BUYING

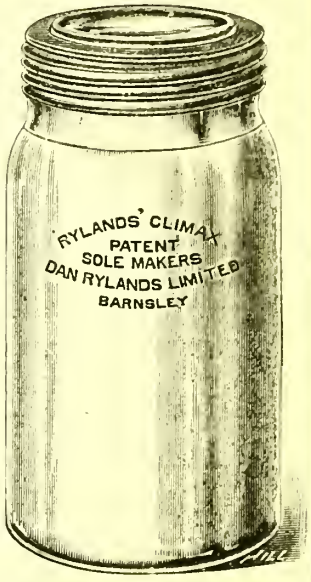
JAM JARS,

CONFECTIONERY BOTTLES,

WHOLE FRUIT JARS,

HONEY & MILK JARS,

PICKLE BOTTLES, &c.,



WRITE FOR OUR PRICES & FULL PARTICULARS.

Please state for what purpose required.

Fresh Fruit can be preserved with its natural flavour all the year round in our Patent Glass Bottles with Airtight Glass Caps.

BETTER THAN EARTHENWARE JARS. NO BROKEN BITS INSIDE.

FINE NEW CROP OIL OF LEMON

AND ESSENCES SUPPLIED.

DAN RYLANDS, LIMITED,

BARNSLEY.

London Offices: 3 Dyer's Buildings, Holborn, London, E.C.

PATENT ECONOMICAL
SODA-WATER PLANTS.

SINCE this Patent Machinery was offered to the Trade it has met with an unprecedented sueeess. It possesses advantages which specially distinguish it from every other style of maehinery, and whieh are destined to seeure for it almost universal adoption. The points of exeellence in this Maehinery are:—(1) It thoroughly eeonomises the Acid and so regulates its flow upon the Whiting as to absolutely prevent any waste; (2) it sceures a more constant and even supply of a produet superior to any that can be obtained from other systems; (3) it takes up less room and requires less power to drive; (4) its contrivance for ringing a bell when it requires re-charging thoroughly eeonomises the time of the attendant. As regards Material and Labour Saving qualities, as well as the high elass of production, this Maehinery is aeknowledged to be

THE MOST ECONOMICAL IN THE WORLD.

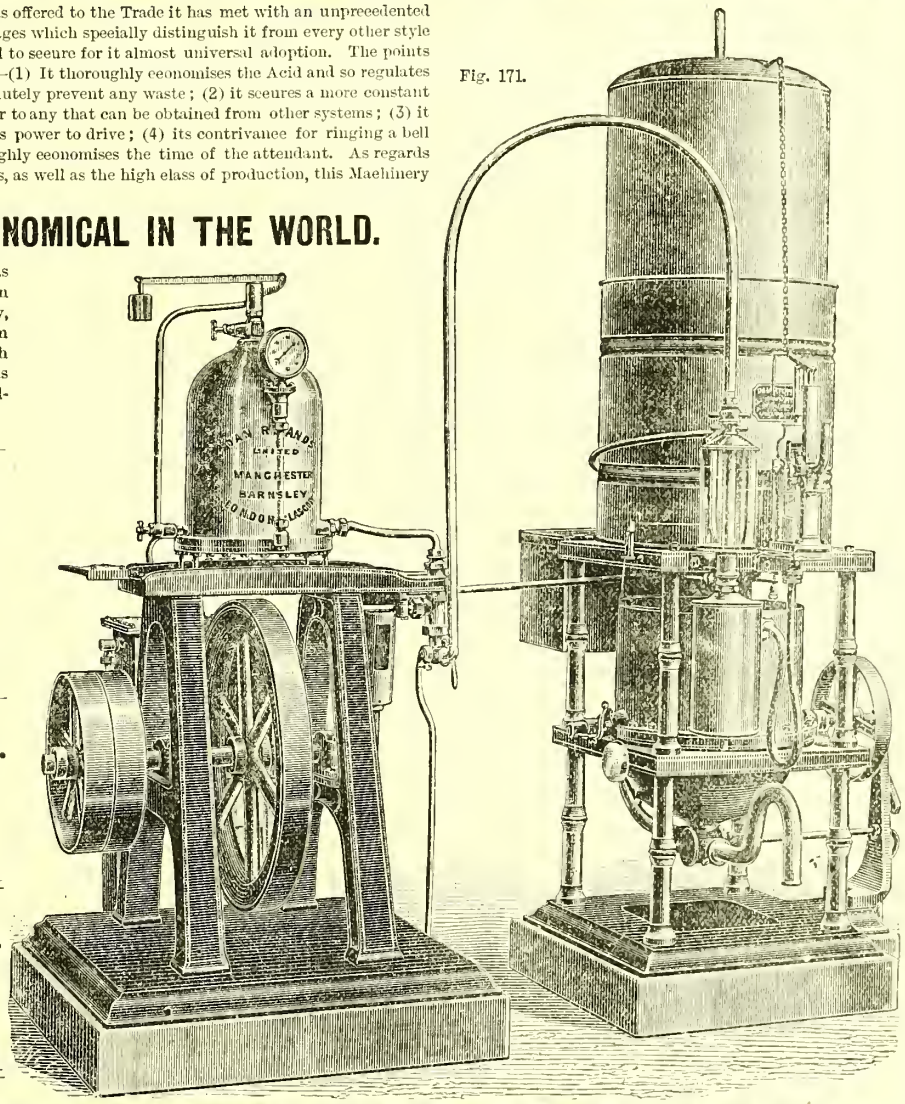
It is specially valuable for Export, as it can be paeked in less spaee than any other Mineral-water Maehinery, fixed more rapidly, requires less room and less power to drive, all of whieh poiuts make it speeially advantageous to Colonial, Foreign, and other Miueral-water Manufaeturers.

A Book of Instructions for Fixing and Using supplied with each Machine.

Saves 30 per cent. in Materials.

Saves 50 per cent. in Power.

Fig. 171.



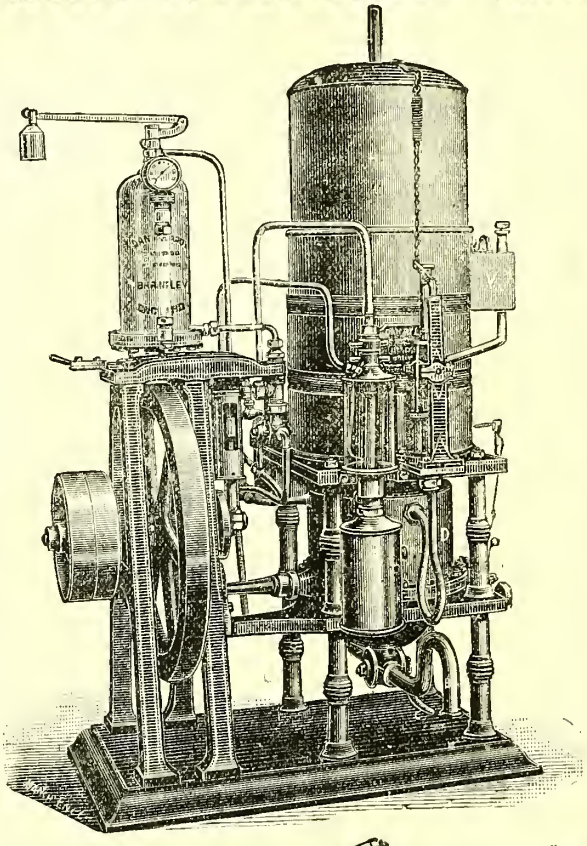
FOUR HUNDRED ALREADY SOLD.

SIZES	PUMP	CYLINDER	CODE WORD	PRICE £	s.	d.
No. 1.—Makes 400 Dozen per day	1⅜ in. Pump	4 Gallon Cylinder (Generator to suit)	*Rabbi*	64	0	0
No 2.— „ 600 „ „	2 „ „	5¼ „ „ „ „	*Raceme*	77	0	0
No. 3.— „ 800 „ „	2¼ „ „	6¼ „ „ „ „	*Rachel*	93	0	0
No. 4.— „ 1,000 „ „	2½ „ „	8 „ „ „ „	*Racing*	108	10	0

Acid Cistern (Reed) £2 10*s. extra*; *Nos.* 1 *and* 2 *Plants, if fitted with extra flywheel and fast and loose pulleys for both hand and power,* £2 10*s. extra* (Raglan). *Tin Piping for connecting machines extra. Packing for Export extra.*

DAN RYLANDS LIMITED, BARNSLEY, ENGLAND

DAN RYLANDS (LIMITED), BARNSLEY.



MACHINERY WORKS:

Blake Street, Manchester, England.

PATENT ECONOMICAL

HAND OR POWER

SODA-WATER PLANTS

(ALL SIZES).

HAND AND STEAM FILLERS

FOR CORKS AND PATENTS.

SYPHON FILLERS,

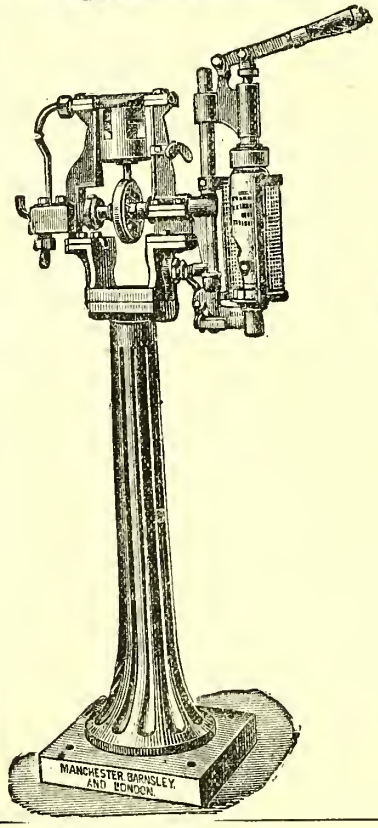
SYPHONS,

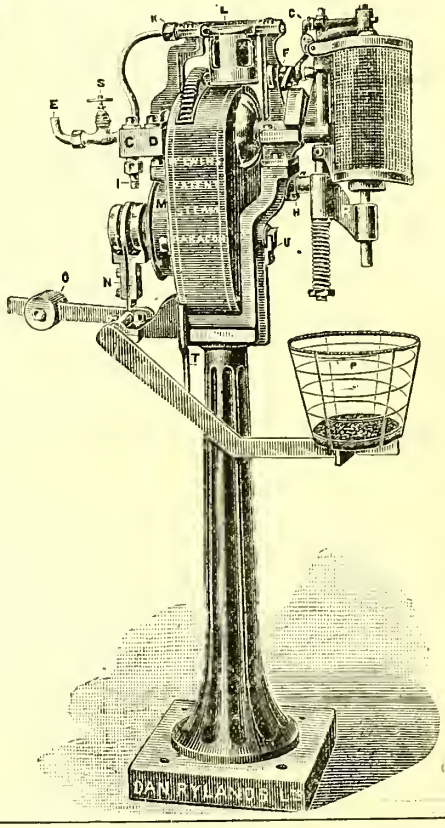
BOTTLES, BOXES, AND ALL SUNDRIES

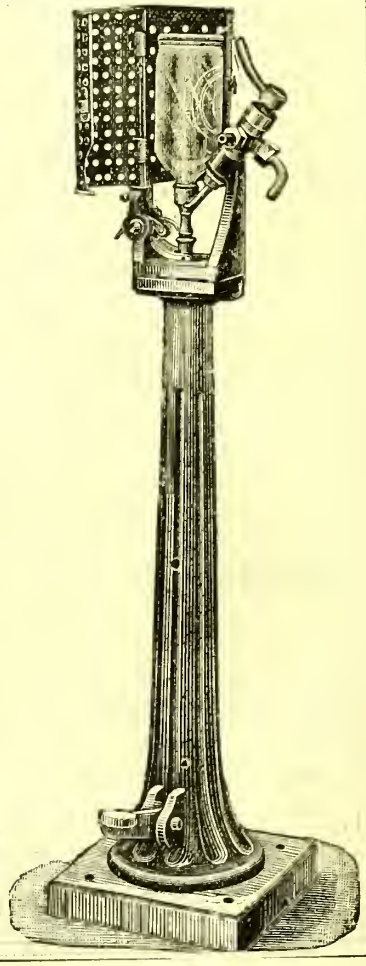
FOR THE TRADE.

Send for

Catalogue free.







PATENT GLOBE-STOPPERED

MINERAL WATER BOTTLES

WITH SPECIALLY SAFE GROOVE.



Fig. 1.

Fig. 1 requires no opener, the stopper being released by means of the glass valve in neck. A simple pressure of the thumb is sufficient.



Fig. 2.

Fig. 2 is an improvement on the original shape shown in Fig. 4, and can be inclined two ways in pouring out contents.



Fig. 3.

Fig. 3 combines the advantages of Fig. 2, with safety indents for holding the stopper during process of brushing.

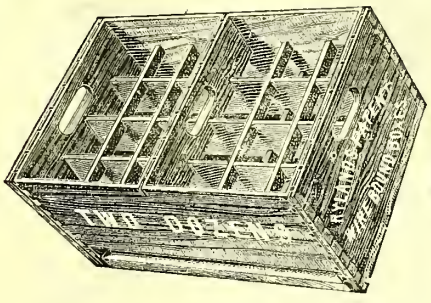


Fig. 4.

SYPHONS

BLOCK TIN TOPS. NICKEL-PLATED TOPS.
SILVER-PLATED TOPS.
WHITE VASES. COLOURED VASES.

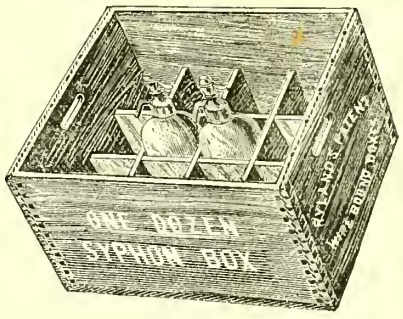
SYPHONS



Patent Wire-Bound

BOXES

STRONG, NEAT, DURABLE.



Prices and Full Particulars from the Patentees and Makers,

DAN RYLANDS, LIMITED, BARNSLEY.

NATURAL MINERAL WATERS

Packing Free.

INGRAM & ROYLE

Packing Free.

LONDON—52 Farringdon St., E.C. **LIVERPOOL**—19 South John Street.

VICHY

SOLE IMPORTERS OF

(STATE SPRINGS)

VICHY

ÆSCULAP, CARLSBAD, CARLSBAD SALTS, LA-BOURBOULE, ROSBACH, VALS, ETC., ETC.

NAME	Per Dozen		Original Packages			
	Bots.	½ Bots.	Bottles		½ Bottles	
Æsculap	15/-	12/-	25	30/-	50	50/-
Apollinaris	6/3	5/-	50	25/-	100	39/-
Bourboule (La)	11/-	—	50	42/-	—	—
Carlsbad	12/-	—	50	46/-	—	—
Condal	—	14/-	—	—	50	56/-
Contrexeville	9/-	—	50	35/-	—	—
Flitwick	24/-	15/-	—	—	—	—
Franz-Josef	—	12/-	—	—	50	42/-
Friedrichshall	13/-	10/-	25	25/-	50	40/-
Gerolstein	5/-	4/-	50	20/-	50	15/-
Hunyadi-Janos	15/-	13/-	25	30/-	50	50/-
Johannis-Brunnen	6/-	4/6	50	22/-	100	35/-
Kronenquelle	10/-	—	50	40/-	—	—

NAME	Per Dozen		Original Packages			
	Bots.	½ Bots.	Bottles		½ Bottles	
Levico	—	15/-	—	—	—	—
Pullna	12/-	8/-	40	36/-	40	25/-
Reginaris	5/6	4/6	50	21/-	50	17/-
Roisdorf	6/-	—	50	25/-	—	—
Rosbach	6/-	5/-	50	24/-	100	36/-
Royat	9/-	—	50	34/-	—	—
Rubinat	15/-	9/-	25	30/-	50	36/-
St. Galmier	6/-	—	50	22/-	—	—
St. Marco	11/-	6/6	50	42/-	100	52/-
Selters	6/-	4/6	50	24/-	50	17/-
Vals	8/6	—	50	33/-	—	—
Vichy (State Springs) "Celestins," "Grande-Grille," &c.	8/6	7/6	50	33/-	50	29/-

CARRIAGE PAID to any RAILWAY STATION in the UNITED KINGDOM.

DETAILED PRICE LIST AND PAMPHLET ON APPLICATION.

SYPHONS & SELTZOGENES



Messrs. J. BARRETT, OHLSTONE & CO., 20 Loftus St., Sydney, N.S.W. Agents for New South Wales, Queensland, and New Zealand.

SODAWATER MACHINERY AND APPLIANCES

BRATBY & HINCHLIFFE LTD

ANCOATS & CO 146 MINORIES

MANCHESTER & LONDON E.C.

81 ROBERTSON STREET, GLASGOW.

PRICES.

SYPHONS ... 1/6 1/8 and 1/10 each.

SELTZOGENES.

1	2	3	4	5	8 pint.
6/-	6/8	7/6	8/6	10/5	16/- each.

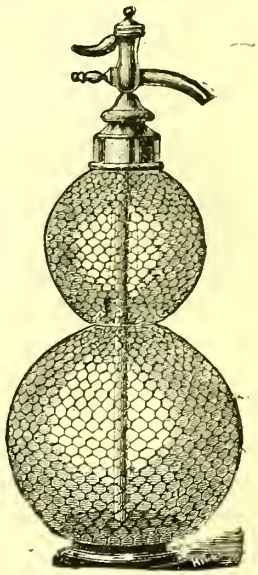
Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed.

See also Inset between pp. 32 and 33 of this Issue.

Messrs. NOYES BROS., 43 Queen Street, Melbourne, Victoria, Agents for Victoria, South and West Australia, and Tasmania.

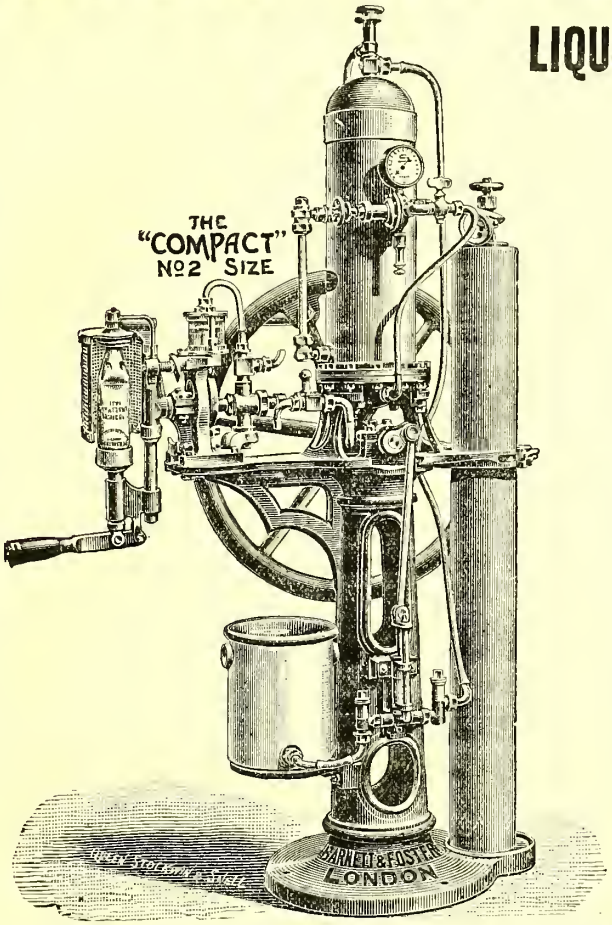
All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.



SODA WATER MAKING

WITH

LIQUEFIED CARBONIC ACID GAS.



From Mr. A. THOMPSON, M.P.S., 98 High Street, Putney, S.W.

June 11, 1891.

I am more than satisfied with the "Compact" Machine, which answers my utmost requirements. I have nearly trebled my sale this last three weeks.

I find the waters produced by this Machine far better than I have been able to obtain from any one, being much more saturated with the gas, and the Syphons emptying themselves straight off, without shaking.

From Mr. C. F. WYATT, Chemist, Rochester.

December 16, 1892.

Replying to your inquiry as to "Compact" Soda Water Machine I can only say that I am satisfied with it and the work it does in every possible way. The aëration of the water is perfect, and my customers are now highly pleased with the quality of the goods.

I would also add that beyond the renewal of a few washers, no repairs of any kind have been required since I had it, some fifteen months since.

THE

No. 2 "COMPACT" Machine

(AS SHOWN).

Producing capacity, by hand, 35 dozen per hour.

PRICE £48.

Or, if fitted for steam, 70 dozen per hour (with an extra filling machine).

NOTE.—Any kind of filling machine can be attached to the "Compact" Machines, EITHER for Syphons, Internal Stoppered, Cork, or Screw Bottles.

Iron Vessel containing an average of 28 lbs. by weight of Liquefied Gas } 10s. each.

And has sufficient Gas to manufacture about 18 gross of highly-charged Soda Water (10-oz. Bottles), or double this quantity of splits.

These Machines occupy little space, and are ready for use immediately! They require no fixing! Are self-contained and produce soda water, lemonade, &c., of the highest class and greatest purity, at a minimum of cost.



THE

'LONDON-MADE' SYPHON

(Title Registered).

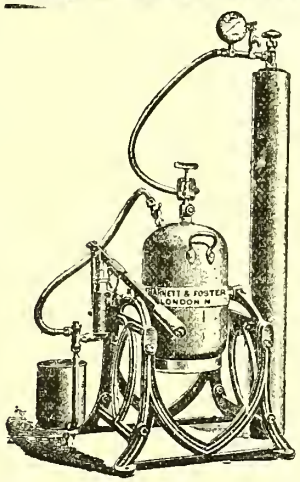
It is the Cheapest, Strongest, Handsomest, and Best in the World.

Pure Block Tin Tops.

PRICE 1/6 EACH.

Nickel-plating Tops from 3*d.* each. Silver-plating Tops from 4½*d.* each. Marking on Tops Free for orders of 250. Marking on Vases Free for orders of 1,000.

THE PORTABLE CYLINDER



Portable Cylinder with Pump fitted to Rocker.

As here shown, is charged with plain filtered water while on the Rocker; the gas from the vessel is then slowly turned on, and the copper cylinder rocked backwards and forwards sharply so as to agitate or mix the water and gas together. When charged to the required pressure (about 110 lbs., shown by the pressure-gauge), it can be removed and attached to the Counter Fountain, or for a filling machine if desired.

Prices.

	£	*s.*	*d.*
Six-gallon Tinned Copper Cylinder	5	10	0
Cast-iron Rocker ..	1	2	6
Flexible Pipe, Pressure-gauge, Safety-valve, & Connections	3	3	0
If fitted with Pump for pumping the water into the cylinder (and so avoiding waste of gas) extra	5	5	0

Prices of larger Cylinders upon application.

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BARNETT & FOSTER, "Niagara Works," 26T Eagle Wharf Road, **LONDON, N.**

SEASON 1893.

JEWSBURY & BROWN'S, MANCHESTER,

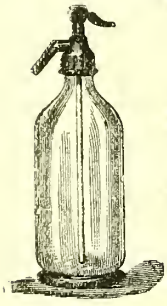
AERATED WATERS and BEVERAGES. Specially prepared for a first-class Family Trade. Chemists who have not hitherto sold these Waters are solicited to apply for Prices and Terms. Trade Lists, sample Counter Bills, and Analytical Reports will be sent on application. JEWSBURY & BROWN Pay Carriage on Waters and Returned Empties.

SEVEN PRIZE MEDALS AWARDED.

SYPHONS & SELTZOGENES

SEVEN PRIZE MEDALS AWARDED.

ENGLISH MAKE.



Perfect Action. Full Strength. Best Workmanship. Thoroughly Reliable. Well Tested. Metal Guaranteed Free from Lead. Lowest Prices consistent with First Quality.

THE ORIGINAL AND ONLY REAL

Non-Metallic SYPHONS & SELTZOGENES.

The "MAJOLICA" Porcelain Lined Heads

(By Royal Letters Patent, No. 15,686).

Metallic contamination of the waters utterly impossible. Vide *The Lancet*, 30 April, 1890, and other scientific opinions.

SELTZOGENE CHARGES AT SPECIAL LOW RATES. Send for List.



Samples, Prices, and Full Particulars on application to

THE BRITISH SYPHON MANUFACTURING CO.

Offices—2B GRESHAM BUILDINGS, GUILDHALL, LONDON, E.C.

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

MOST SUITABLE BASIS FOR QUININE AND OTHER MEDICATED WINES.

A. MILLAR & CO., DUBLIN; and 47 MARK LANE, LONDON, E.C.

Or of H. J. ROYDANT & CO., 75 Acre Lane, BRIXTON, S.W.

HIRST, BROOKE & HIRST (LIM.), LEEDS,

Manufacturing Chemists and Wholesale Druggists, Manufacturers of

ORANGE WINE

Of Finest Flavour and Quality, and specially suitable for the Preparation of Orange Quinine Wine.

MEADOWCROFTS'

CONCENTRATED SOLUBLE FRUIT

ESSENCES

ARE NOTED

For the Excellent Flavour and Aroma they impart to the beverages prepared with them.

SPECIALITIES.

Sol. Ess. Lemon, double the usual strength.
" " Ginger Ale, double the usual strength.
" " Jamaica Ginger, of great strength.
" " Orange, of great strength.
" " Hop Ale, double strength.
Foamine, double strength.

STEAM FILLER

We are the makers of what is undoubtedly **the very best** Steam Filler for Codd's bottles, and it is in constant use by many of the best makers in the country. It is fitted with **a perfect Syrup and Water Saving Motion**, and we guarantee it to fill **perfectly** 80 to 100 dozen large bottles per hour **with one lad only.**

Price **£26** net cash, or with Improved Syrup Indicator, **30s.** extra.

OVER 100 OF THESE MACHINES ARE IN ACTUAL WORK.

W. MEADOWCROFT & SON, LIMITED,

FRUIT ESSENCE MANUFACTURERS AND AERATED WATER ENGINEERS,

REGENT STREET, BLACKBURN, LANCS.

Also at 50 Robertson Street, Glasgow.

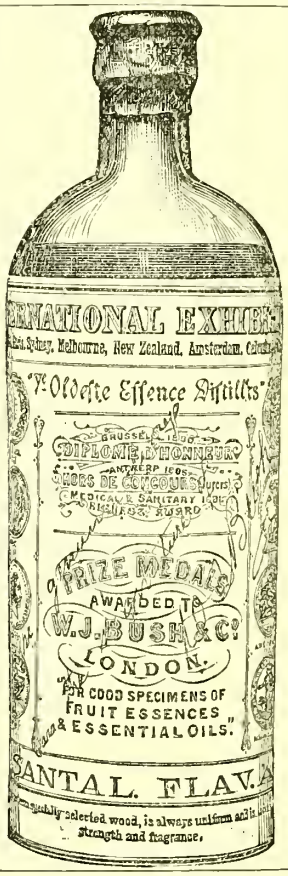
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ESSENTIAL OILS

Packed in Original 1-lb. Bottles.

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Ol. Anethi Ang.
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ALL OWN DRAWING.

Ol. Bergamot., Extra
Ol. Eucalypti, Extra
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DIRECT IMPORTATION.
SPECIALLY SELECTED.

It is imperative that Chemists and others requiring Essential Oils for Medicinal purposes should purchase genuine and finest qualities only. These can only be obtained from W. J. BUSH & CO., who supply them as above, in 1-lb. Bottles, and guarantee their quality and purity. **Nearly all Essential Oils offered in the Market are Impure.**

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Works—ASH GROVE, HACKNEY.

The "ALPHA" Brand Malvern Waters.

W. & J. BURROW, MALVERN.



BURROW'S MALVERN WATERS

The Purest Spring Water for Drinking & Invalid Cookery. In Stoppered Wine Bottles. Six dozen carriage paid.

W. & J. BURROW, MALVERN.

Bottled at the Original Springs

THE

BERKEFELD - NORDTMEYER FILTER.



THE LANCET, September 12, 1891:—"We have put the Berkefeld Filter through many rigid tests; we have not obtained the slightest evidence which would enable us to contest any of the statements made in regard to this filter."

ADVANTAGES.

Rapid, Perfect, and Permanent Filtration.
Easy Cleaning and Sterilization.
All Descriptions Supplied.

The Berkefeld Filter Co., Limited, 121 Oxford St., London, W.
LOCAL AGENTS APPOINTED.

ESTABLISHED NEARLY FIFTY YEARS.

PRIZE MEDALS AWARDED AT ALL THE EXHIBITIONS.

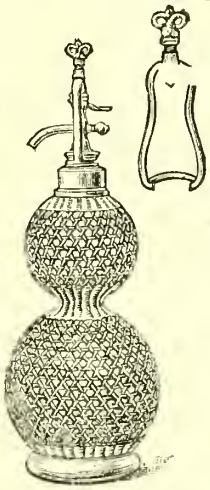
EUGENE GERAUT & CO.'S

LATEST

NEW PATENT SELTZOGENE

PATENT No. 18,305.

For the immediate Preparation of Seltzer Water, Eau de Vichy, Soda Water, Sparkling Lemonade, Aërated Waters, &c.



Finding so many complaints through the screws of Seltzogenes getting worn and Customers not screwing taps on tight enough, E. G. & Co. have patented the above improvement in their Seltzogenes, which differs materially from the numerous kinds that have from time to time been introduced, there being no screwing required, thus the machines cannot easily get out of order.

In place of Screw on Tap, there is a Clip, which is easily fastened to the Seltzogene, any Child being able to Screw the little Key at Top, and making perfectly Air-tight the Apparatus.

WEAR AND WORKING GUARANTEED. NO MORE SCREWING REQUIRED. TAP CANNOT GET CORRODED.

CONTRACTORS TO HER MAJESTY'S GOVERNMENT.

SOLE ADDRESS—

139 & 141 Farringdon Rd.,
LONDON, E.C.

Seltzogenes and Gazogenes Repaired.

BOXES, CASES, CRATES, &c.

ORDER ALL YOUR

BOXES, RAIL CASES, CRATES, VAN BOXES, WASHING TRAYS, &c.

Direct from the Makers.

Our Patent "Crescent Steel" WIRE-BINDING is liked more than ever!!!

It doubles the strength of a Case or Van Box.

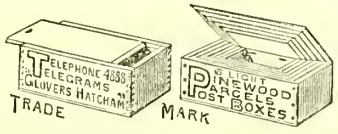
SAVES BREAKAGES, AND GIVES MORE SATISFACTION.

VIDE PRESS:—"*This firm were awarded a Special Diploma of Merit for their High-class Manufactures.*"

"A CAPITAL IDEA"?!!

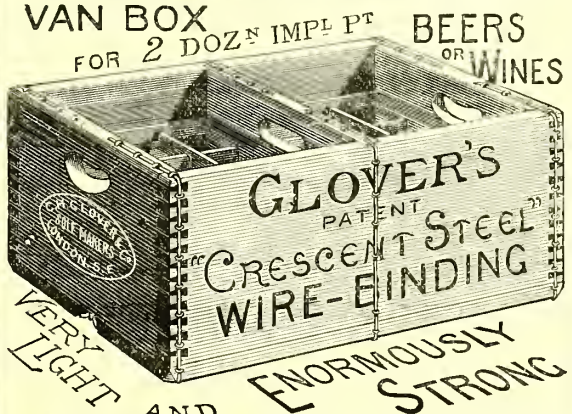
Said our friend Jones, the go-ahead Chemist. "I've doubled my trade since I commenced putting up my customers' prescriptions in Glover's neat little boxes. What a joke!!! It pays cent. per cent."

"THEY MAKE ME ANY SIZE I LIKE."



"MY CLIENTS DO LIKE THEM."

TRY A SAMPLE GROSS!!!
PRICE FROM 10/- PER GROSS!!!



"CAPITAL, INDEED"!!!

Said the Colonial Shipper. "Those nests of 6 boxes, ranging from 5 in. by 2 in. by 1½ in. to 9½ in. by 6½ in. by 4½ in., shipped (as solid) in cases containing ½-gross nests, is just what our Indian and Colonial buyers wanted!! We are getting repeat orders for large quantities."

Price 14s. per doz. Nests of 6 Boxes.

Liberal Discounts to large Shippers.

H. GLOVER & CO.

Hatcham Saw Mills and Wharves,

HATCHAM, LONDON, S.E.

☞ *Licensed Makers of "Foster's Patent" Crates and "Niagara" Cases.*

ALKALIED -versus- PURE COCOA.

The French Government have rendered the public a great service by taking up the question of Cocoa Adulterations, and especially of Cocoa adulterated with alkali, the most insidious of them all. In 1890 an eminent English Physician (Dr. Crespi) gave the result of his investigations, in which he points out that the object of this adulteration is to produce "an appearance of strength which cocoa does not possess, and the ignorant consumer hastily assumes that he is getting more for his money and being supplied with a much better article, so that he cheerfully pays a higher price for his medicated beverage."

And, again, he shows the effect produced by alkali upon the natural butter in Cocoa—

"The addition of an alkali gives rise to a soap, in plain English, much as when common soap—a compound of oil and alkalies—is mixed with water."

The conclusion naturally follows that this adulteration of Cocoa is not only an imposition on the public, but that it lessens its value as food, and is deleterious to health.

This is confirmed and accentuated by the prosecution in France of a Dutch manufacturer; the President of the Court, M. Flaudrin, making the following statement:—

"From the examination of the experts, Messrs. Riche and Brouardel, it has been ascertained that the Cocoa in question contains such a quantity of potash as to render it dangerous to health. If a child were to take several cups of this Cocoa in one day, serious consequences might result."

M. Riche, Professor of the School of Pharmacy, and Chemist to the Paris Mint, was the leading witness for the prosecution; in speaking of the addition of 3 per cent. of potash, he remarked that "the proportion of potash would be detrimental to health." Professor Brouardel, *doyen* of the Faculty of Medicine, confirmed Professor Riche's opinion, and added that such alkalies

"are more dangerous according as the persons partaking of them may be young."*

The addition of alkali was fully acknowledged by the manufacturers, thus contradicting what the President pointedly showed to be printed by them on the label of the box containing the preparation, "Guaranteed to contain only Soluble Cocoa of the finest quality."

The consumer has a right to be protected in this matter—putting aside for the moment the very serious question of health involved—and should have the power to demand a truthful statement of all such additions and adulterations.

* This has since been confirmed by the celebrated French Physician, M. Pasteur.

CADBURY'S

"The Typical Cocoa of English Manufacture, Absolutely Pure."

The Analyst.

No Chemicals used in Cadbury's, as in the so-called pure Foreign Cocoas.

T. EUSTACE HILL, M.B., reports after analysing Cadbury's and several of the Foreign so-called Pure Cocoas:—"The excess of alkali present in all the Cocoas, except your own (Cadbury's), is of course intentionally added, no doubt with some special object, and must be regarded as unnecessary and undesirable from a dietetic point of view, if not injurious."

40 PRIZE MEDALS. 3 Factories: PARIS, LONDON, STRASBOURG.

COMPAGNIE FRANÇAISE,

Purveyors to H.R.H. the PRINCESS of WALES.

REVIVISCENT CHOCOLATE.

Invented and prepared chiefly for use in cases where Sugar is considered harmful.

WHOLESALE TRADE PRICE, 4s. per lb.

LONDON BRANCH:

BERMONDSEY NEW ROAD, S.E.

"A Veritable Treat."

PURITY—STRENGTH—FLAVOUR.

The "LANCET" says:—

"A STRONG AND PURE COCOA."

Rowntree's Elect Cocoa

Dr. HASSALL says:—
"Of excellent quality and unusual strength."

REFRESHING—INVIGORATING—SUSTAINING.

Made in a Moment.

THE COCOA WORKS, YORK, ENGLAND.

TOWER TEA

A MOST VALUABLE AGENCY.

REGISTERED TRADE MARK.



NONE GENUINE WITHOUT BOTH THE REGISTERED TRADE MARK AND THE SIGNATURE—

Tower Tea

THE HIGHEST AWARD FOR TEA

AT THE

PARIS EXHIBITION, 1889,

AND ROYAL MILITARY EXHIBITION, 1890.

Report of "THE LANCET" Analysis, Dec. 20, 1890.

"We have submitted to examination the Teas of the Great Tower Street Tea Co., Ltd. They all yield liquors which are generous to the taste and of full strength and vigour. The results of our analysis indicate the purity and genuineness of the sample.

TOWER TEA for Retail at 1/2, 1/4, 1/6, 1/7, 1/8, 1/10, 2/-, 2/4, 2/6, & 2/8 per lb.
TOWER TEA gives a liberal net profit to the Vendor.
TOWER TEA produces a steady and increasing income for the Agent.
TOWER TEA requires no locking up of capital.
TOWER TEA is appreciated the best by Chemists who know most about Tea.
TOWER TEA is security for Chemists who are technically unacquainted with Tea.
TOWER TEA is a good advertisement for the Agent.
TOWER TEA is not sold Retail by the Proprietors.

A BOOK OF TESTIMONIALS WILL BE SENT ON APPLICATION.

N.B.—Samples of Blended Tea in Bulk submitted to Chemists who wish to pack for themselves.

WHERE VACANCIES EXIST, AGENTS ARE APPOINTED BY

THE GREAT TOWER STREET TEA CO., LD.

(SOLE PROPRIETORS OF TOWER TEA),

5 JEWRY STREET, LONDON, E.C.

PEARSE & MEEKING'S
BLENDED TEAS

WHOLESALE CASH PRICES:

No. 1,	No. 1a,	No. 2,	No. 3,	No. 3a,	No. 4,	No. 5,	No. 6,
10d.	11d.	1/-	1/2	1/3	1/4	1/7	1/10

Boxes, 20 lbs ; Half Chests, 40 lbs. and 60 lbs.: Chests, 100 lbs. Carriage Paid on 60 lbs. and upwards.

OUR CHOICE CEYLON TEA SIFTINGS, to sell at 1/4,

IS A BETTER TEA FOR 1/4 THAN ANY LEAF TEA AT 2/6.

Matchless in the Cup.



FOR NET CASH.
Wholesale
1/-
To Retail
at
1/4

In Boxes, 30 lbs ; Half Chests, 60 lbs.; Chests, 100 lbs. Duty Paid and Carriage Paid.

"PACIFICUS" PURE CEYLON TEAS

In Lead Packets, ¼-lb., ½-lb., 1-lb., &c.

To Retail,		Wholesale,	
1/4		1/-	
„	1 6	„	1/2
„	1/8	„	1/3
„	1/10	„	1/5
„	2/-	„	1/6
„	2/4	„	1 10
„	2/8	„	2/2



Or without selling prices on labels, "PACIFICUS" TEAS from 1/- to 2/-

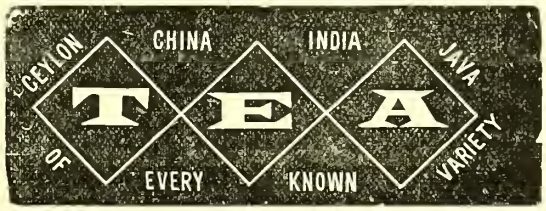
Customers' own names can be printed on Labels if 200 lbs. ordered at first.

Carriage paid on 60 lbs. and upwards. With orders for 100 lbs a handsome framed and glazed Bill is sent. Window Bills, &c., supplied.

TEAS SUPPLIED FOR HOME CONSUMPTION OR EXPORTATION.

We quote f.o.b. London under Bond.

Every known variety of Tea as imported from 6*d.* per lb. upwards.



Packed under Bond in Tins or Lead Packets of every description.

Also in Kilos. or ½ Kilos. if desired.

MONTHLY PRICE CURRENT, SAMPLES, TERMS, &c., ON APPLICATION.

Pearse & Meeking,

Wholesale & Export Tea Merchants & Blenders,

42 MINCING LANE, LONDON.

PUREST IN ENGLAND.

BOURNE SODA, SELTZER, LITHIA, POTASH, LEMONADE, GINGER ALE, &c.

Supplied in Six Dozen Cases, Carriage Paid, by **TABLE** Analysis, &c., on Application.

R. M. MILLS & CO. **BOURNE, LINCOLNSHIRE.** **WATERS**

West End Agent, **D. WHEATLEY**, 16A North Audley Street, W. City Agents, **RAE & CO.**, 23 Fenchurch Street, E.C. And of all Chemists, Wine Merchants, Hotels, &c.

SEE

NEWBALL & MASON'S

INSERT

(Between pages 32 and 33)

DRAWING ATTENTION

TO

THE ORIGINAL

Extract of Herbs

AND

Wine Essences.

INDEX TO ADVERTISEMENTS—

See pages 65, 66, 67, 68.

BRAND & CO.'S

PEPTONES

OF

BEEF, MUTTON, VEAL,

AND

CHICKEN.

To H.R.H. The Prince of Wales, The Empress of Germany, &c.



NESTLÉ'S FOOD

An entire Diet for Infants, Children, and Invalids.

"Renders valuable assistance in Wasting Fever."
"Beneficial as a Diet in Severe Cases of Typhoid."
"Invaluable in Cholera Infantum."

Pamphlet containing Extracts from Standard Medical Works in which the above Testimony is given, sent free with Sample Tin on application to H. NESTLÉ, 9 Snow Hill, London, E.C.

The attention of the Medical Profession is also drawn to

NESTLÉ'S SWISS (CONDENSED) MILK.

Which, through its RICHNESS in CREAM and UNIFORMITY of QUALITY, has obtained the Largest Sale in Great Britain. It can be used for all purposes of FRESH MILK.

Samples to Members of the Medical Profession only, sent free on application to H. Nestlé, 9 Snow Hill, London, E.C.

EIGHT PRIZE MEDALS AWARDED.

GOODALL'S

HOUSEHOLD SPECIALITIES.

YORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6*d*., 1*s*., & 2*s*. each.

GOODALL'S BAKING POWDER.

The Best in the World. 1*d*. Packets; 6*d*., 1*s*., 2*s*., and 5*s*. Tins.

GOODALL'S EGG POWDER.

One 6d. Tin is equal to 25 Eggs. In 1*d*. Packets; 6*d*., 1*s*., and 5*s*. Tins.

GOODALL'S CUSTARD POWDER.

Delicious Custards without Eggs. In Boxes, 2*d*., 6*d*., & 1*s*. each.

GOODALL'S BLANCMANGE POWDER

Delicious Blancmange in a Few Minutes. Boxes, 6*d*. and 1*s*. each.

GOODALL'S QUININE WINE, B.P.

Best Tonic yet Introduced. Bottles, 6*d*., 1*s*., and 2*s*. each.

GOODALL'S GINGER-BEER POWDER.

Makes the Best Ginger-Beer. Packets, 3*d*. and 6*d*.

GOODALL'S BRUNSWICK BLACK.

For Painting Stoves, Grates, Iron, Tin, &c. 6*d*. & 1*s*. Bottles.

GOODALL'S LAVENDER WATER.

Rich and Lasting Perfume. Bottles, 1*s*., 2*s*., and 5*s*. each.

GOODALL'S PLATE POWDER.

For Polishing and Cleaning all Metals. Boxes, 6*d*., 1*s*., and 2*s*.

GOODALL'S JELLY SQUARES.

Make a Delicious and Nutritious Jelly. In ½-pint, 1-pint, and Quart Boxes, 3*d*., 6*d*., and 1*s*. each.

PROPRIETORS—GOODALL, BACKHOUSE & CO., LEEDS.

PATENT MEDICINES

AND

DRUGGISTS' SUNDRIES.

Monthly Price List of Patent Medicines, Druggists' Sundries, &c., will be sent post free on application to

GOODALL, BACKHOUSE & CO., LEEDS.

PARIS EXHIBITION, 1889.

PRIZE MEDAL AWARDED TO



"SALVO PETROLIA"

Absolutely Genuine Paraffinum Molle of the very Purest Form, and we claim that it is superior to Vaseline.

Manufactured by the Proprietors in Five distinct qualities—

WHITE, LEMON, YELLOW, GOLDEN, AND VETERINARY.

PACKED IN TINS, 1, 5, 10, 14, 28, 56, and 112 lbs. Also in 3-cwt. Casks.

"Edible Salvo Petrolia"

For Public Speakers, Actors, and Singers.

1*s*. 6*d*. per Tube.

"OLEUM DEELINÆ"

(REGISTERED).

Universally adopted by the Medical Profession for

OPHTHALMIA, SCURVY, RINGWORM, ECZEMA, AND ALL SKIN-DISEASES.

For External and Internal Irritation of every kind.

PACKED IN CASES—

One Doz. 1s. 6d. Bottles; One Doz. 2s. 6d. Bottles.

Pint Bottles, 4*s*. 6*d*. each, for Hospitals and Dispensing Chemists.

TESTIMONIALS MAY BE HAD UPON APPLICATION.

The above are Manufactured Solely by the Proprietors,

THE DEE OIL COMPY.

LIMITED.

Works—SALTNEY, CHESTER.

OFFICES—

49 LIME STREET, E.C.

Liverpool, Dublin, Manchester, Glasgow, Hull, Cardiff, Bristol, Belfast Barrow-in-Furness, Nottingham, Paris, Hamburg, &c.

THE

VIKING FOOD & ESSENCE CO.

33 KING'S ROAD, ST. PANCRAS, N.W.,

Where all orders and communications should be addressed. Their New Factory is fitted with new and improved appliances for turning out

THE MOST PERFECT MEAT PREPARATIONS FOR INVALIDS.

Gold and Silver Medals awarded at the Kimberley Exhibition, 1892, for the Viking Preparations.

VIKING BEEF TEA JELLY.

VIKING ESSENCE OF BEEF.

VIKING PURE BEEF TEA
(Concentrated).

VIKING
INVALID TURTLE SOUP.

VIKING MEAT LOZENGES.

VIKING
"LIEBIG'S" EXTRACT.

VIKING
TURTLE CONSOMMÉ
(Clear Soup).



The British Medical Journal says:
"The Preparations of this Company are pure and of very high quality."

The Lancet says:
"These Preparations seem to us as good as they could possibly be."

From THOMAS BOND, F.R.C.S., M.B., B.S., London, Surgeon to Westminster Hospital, 7 The Sanctuary, Westminster Abbey.

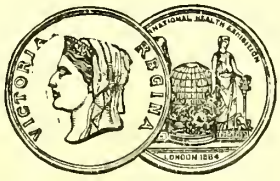
"I have much pleasure in stating that I have used the Viking Essence of Beef and the Invalid Turtle Soup among my patients. I have found them meet with universal approbation. I can state from my own experience that the Turtle Soup is the most delicious food I have ever met with for the sick-room; it is easily digested, and generally taken with relish, even when the appetite is most capricious. The Essence of Beef appears to me to be a thoroughly good and nutritious food."

[1]

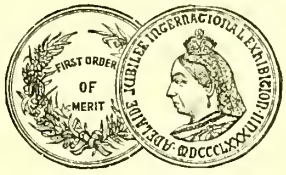
The whole of the above articles are strongly recommended by the Medical Profession for Invalids. They are of the highest class and guaranteed perfectly pure, those preserved in GLASS being free from all risk of metal contamination, and therefore especially suitable for delicate persons.

These goods are packed in a tasteful and attractive style, and the reduced prices quoted enable our customers to sell at a lower price (and at the same time retain a substantial profit) and supply goods which Consumers will always ask for again.

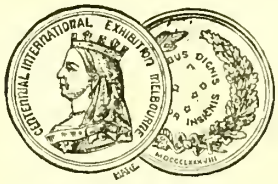
THE VIKING BRAND IS A GUARANTEE OF STRENGTH & PURITY.



London, 1884.



Adelaide, 1887.



Melbourne, 1888.

BENGER'S

GOLD MEDAL AWARDED HEALTH EXHIBITION, LONDON

FOR INFANTS, CHILDREN, AND INVALIDS.

FOOD

Benger's Food is very extensively Advertised at Home and Abroad.

IT HAS A LARGE AND INCREASING SALE WHEREVER INTRODUCED.

The following Extracts from the Medical Journals, and from Private Letters received by the Manufacturers, sufficiently indicate its high character, and the estimation in which it is held alike by the Medical Profession and by the Public.

The LANCET says:—

"Mr. Benger's admirable preparations."

The BRITISH MEDICAL JOURNAL says:—

"Benger's Food has by its excellence established a reputation of its own."

The LONDON MEDICAL RECORD says:—

"It is retained after every other Food has been rejected. It is invaluable."

The ILLUSTRATED MEDICAL NEWS says:—

"Infants do remarkably well on it. There is certainly a great future before it."

From an EMINENT SURGEON:—

"After a lengthened experience of Foods both at home and in India, I consider 'Benger's Food' incomparably superior to any I have ever prescribed."

A MEDICAL MAN writes:—

"This particular Food is the only one I have been able to take constantly and with advantage. I have prescribed it for others with the best results."

The COUNTESS OF —— writes:—

"I really cannot resist telling you of the marvellous results of Benger's Food. Not only am I quite renovated by a cupful every morning, but my daughter is taking it and finds great benefit."

A LADY writes:—

"I consider that, humanly speaking, Benger's Food entirely saved baby's life. I had tried four other well-known foods, but he could digest nothing until we began the 'Benger.' He is now rosy and fattening rapidly."

BENGER'S FOOD is sold in Tins at 1s. 6d., 2s. 6d., 5s., and 10s. each, by Chemists, &c., everywhere; and may be obtained through BARCLAY, EDWARDS, SANGER, SUTTON, NEWBERY, and all the leading Wholesale Houses and Shippers, or of the Manufacturers—

F. B. BENGER & CO., LTD., OTTER WORKS, MANCHESTER.

GEORGE MASON & CO.'S
ESSENCE OF BEEF FOR INVALIDS

MASON'S ESSENCE OF BEEF consists solely of the juice of the finest British Beef, without the slightest addition of any other added matter whatsoever. It is therefore absolutely pure. In all cases of loss of blood or extreme debility, Mason's Essence of Beef not only exhilarates the brain, but gives tone and strength to the whole system. In cases of vomiting, whether through pregnancy or otherwise, it is retained by the stomach when other food is rejected.

Hospital for Consumption,
BROMPTON.

ORDER NO. 1090.

Please supply 120 tins MASON'S ESSENCE OF BEEF as before.



TRADE MARK.

ST. MARY'S HOSPITAL,
PADDINGTON.

ORDER NO. 902.

Please send at once 3 gross MASON'S ESSENCE OF BEEF as last supplied.

MASON'S "O. K." BOUILLON.

The "O. K." BOUILLON is made in England from British Beef, and contains the Fibrine and Albumen in their most perfect form. It is without doubt the best and cheapest Beef Tea that has ever been put before the public, and its nutritive and stimulating value is at least 100 times greater than any of the foreign-made extracts that are sold in this country. Mr. George Weddell, of the eminent firm of Mawson, Swan & Weddell, Grainger Street, Newcastle-on-Tyne, sends us the following unsolicited testimonial :—

30/10/90.

GENTLEMEN,—I have used your "O. K." Bouillon for nearly three years, and have found it an excellent restorative. During a long illness in my family, and again in the debility following influenza, we used it largely, and every cup seemed to improve the spirits and general condition. I shall always have pleasure in recommending it.

Faithfully yours, GEORGE WEDDELL.

There is not a day passes without our receiving letters similar to the above. The trade should bring this splendid Beef Tea to the notice of their customers.

MASON'S MEAT JUICE.

The value of this Meat-Juice consists in its great richness in albumen in an unaltered and soluble form, together with notable quantities of hæmoglobin. On this account it should never be heated, or even mixed with hot foods, but it should be administered as a cooling drink, diluted with water, or with an alkaline effervescent.

CONCENTRATED BEEF TEA, MEAT LOZENGES.

MASON'S MALTED FOOD for INFANTS.

The above preparation contains the nitrogenous elements of farinaceous food. It is in a semi-digested condition, and in a state readily assimilated by the Infantile organs.

MASON'S "O. K." SAUCE.

A delicious Condiment.

MASON & CO., LTD., 417 & 419 KING'S ROAD, CHELSEA, S.W.

Peter Tyrer's SAUCES.

WORCESTER, READING, HARVIE, YORKSHIRE,

AND

"BOROUGH" KETCHUP.

SILVER MEDAL.

	Per Gross.	Extra Quality.
1*d.* Sample Bottles, dozen parcels	5/3	6/3
„ „ ½-gross boxes	5/9	6/9
1*d.* Giant „ dozen parcels	6/6	8/6
„ „ ½-gross boxes	7/-	9/-
¼ Bottles, flat or round, reputed ½ pints	16/-	26/-
½ „ „ „ „ pints	26/-	38/
1 Pint Imperial, round stoppered bottles...	52/-	62/-
12½-Gallon Casks (*casks free*)	...each 20/-	32/-

ROYAL CAFE SAUCE,

A RICH FRUITY & EXQUISITE FLAVOUR.

Square Glass Stoppered Bottles, containing nearly ½ pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross

Cash Price—20s. for 12½ Gallons.
CASKS FREE.

School of Cookery, Crystal Palace, S.E.,
January, 1883.

MR. PETER TYRER.

SIR,—I have been using the "Borough" Ketchup, and am very pleased with it. Its flavour is excellent, both for all kinds of Savoury dishes and Soups; and I most certainly should advise every cook and housekeeper to use it, FOR I HAVE NEVER YET MET ITS EQUAL.

MARIAN SMITHARD,
[2] *Lecturess on Cookery.*

IT IS A FACT THAT THOSE WHO BUY FOR CASH



MANUFACTORY—

30 SOUTHALL PLACE, LONG LANE, BOROUGH, LONDON, S.E.

CHIEF SCOTCH AGENCY—West Nile Street, GLASGOW.

JAMES BOULTON & CO., LIM.

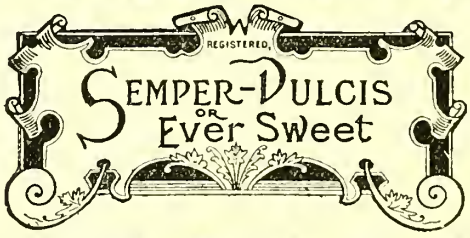
CHEMICAL MANUFACTURERS,

CRAYFORD MILLS, STRATFORD.

MANUFACTURERS OF THE

NEW PRESERVATIVE

FOR BUTTER, CREAM, MILK.



FOR MEAT, JELLIES, FISH.

OVER 130 TONS SOLD IN ONE YEAR.

The very Best Preservative for Butter, Margarine, or Milk, being a Pure Homogeneous Chemical compound, not a Mixture.

AGENTS WANTED EVERYWHERE.

ALSO

THE FINEST BUTTER COLOUR

BUTTERCUP BRAND.

STEAM-MADE GRANULAR EFFERVESCENT PREPARATIONS.

We beg to call the attention of Buyers and Shippers to our Special Steam-made Granular Preparations. Having recently laid down New Plant for the manufacture of the above, we are now prepared to supply articles of the very finest quality, and invite Buyers to send for Samples and Quotations.

ACIDS - - - - Acetic, Hydrochloric, Nitric, Pyrogallic, Sulphuric, Sulphurous

AMMONIUM - Acetate, Carbonate, Chloride, Nitrate, Oxalate, Phosphate

IRON - - - - Acetate, Carbonate, Chloride, and Sulphates

POTASSIUM - Acetate, Citrate, Oxalate, Sulphate, &c.

ZINC - - - - - Carbonate, Oxide, Sulphate, Sulphide, &c.

MAGNESIA - Carbonate Calcined (Citrate Effervescent), Sulphate, &c.

FRUIT ESSENCES, &c.

SPIRIT COLOURING. CAMPHOR BELLS.

SAMPLES AND QUOTATIONS FREE ON APPLICATION TO THE WORKS.

THE PATENT "GRIP" FLY PAPER.

The "EDITION DE LUXE" of

STICKY FLY PAPERS.

They are specially suited for Export, arriving in the same condition as when shipped.

NO FOLDED EDGES.

GUM CANNOT EXUDE.



PATENT SEALED BORDER.

PERFECT FOR EXPORT.

Le "GRIP" papier pour les mouches.

Ce papier attrape les mouches et toutes sortes d'insectes ailés, et les tue subitement. Il ne contient pas de poison. Pour l'ouvrir tirez uniformément d'en haut.

"GRIP" Fliegen-Papier.

Fliegen und alle beflügelte Insecten werden gefangen und sterben rasch.
Es enthält kein Gift.
Offne vorsichtig von der obersten Ecke.

Carta "GRIP" da mosche.

Con questa carta, che contiene nessuno ingrediente velenoso, le mosche e gli altri insetti alati si prendono, e muoiono prestamente.
La carta si apre col tirar al angolo superiore.

El papel "GRIP" para atrapar las moscas.

Este papel, que contiene ninguna sustancia venenosa, atrapa las moscas y otros insectos alados, los cuales non tardan morir.
El papel abre se tirando firmemente del ángulo superior.

Papel "GRIP" (mata) moscas.

Moscas e todos os insectos aligeros são por elle attrahidos e promptamente morrem. Não contem veneno.
Abre-se puxando-se com firmeza pelo canto de cima.

Het "GRIP" Vlieg papier.

Men vangt hiermede vliegen en all vliegende insekten, en zij sterven zeer schielijk. Het bevat geen vergift. Om het open te krijgen moet men het van den bovensten hoek voorzichtig trekken.



MONKEY BRAND.

FREE

IN LONDON

AND

BRISTOL.

100 Bar Cases,
25/- net.

50 Bar Cases,
15/- net.

48 ½-Bar Bxs.,
6/3 net.

Special Terms to Large Buyers!

ALL WHOLESALE DRUGGISTS WILL SUPPLY.

If any difficulty in obtaining in any part of the World, write to

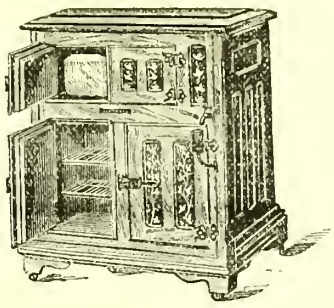
SOLE LONDON CONSIGNEES—

W. B. FORDHAM & SONS, LIMITED,

36 to 40 YORK ROAD, KING'S CROSS, **LONDON, N.**

Established 1825. **Telegrams—"Fordhams, London."**

FIFTY-FIVE PER CENT. DISCOUNT.



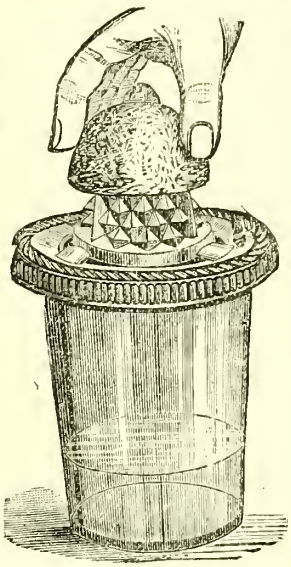
THE "LEONARD"

CLEANABLE REFRIGERATORS.

After the most successful season we have ever known in these goods we hold a stock of 10 only of the most saleable sizes, and will clear at the above unheard of discount. Full particulars and illustrated list upon application.

EASLEY'S

LEMON JUICE EXTRACTOR.



Neatly packed in Subdivided Card Counter Boxes of 1 dozen.

For CLEANLINESS, QUALITY, CONVENIENCE, and CHEAPNESS, this make is unequalled.

We are the proprietors of this Patent. Manufacturers are hereby cautioned against making Extractors that infringe this Diamond Facets pattern.

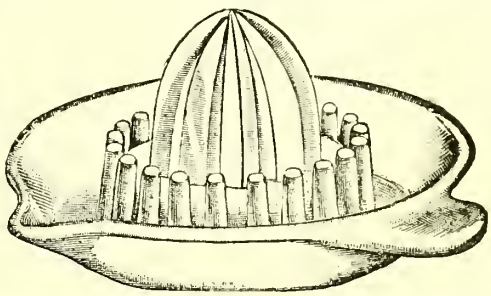
☞ Every Genuine Easley's Patent Lemon Juice Extractor bears name and date, July 10th, 1888.

There are Inferior Imitations in the Market.

COUNTER BOX of 1 dozen 2/-, if 1 gross 22/-

"MANNY" PATENT

LEMON JUICE EXTRACTOR.



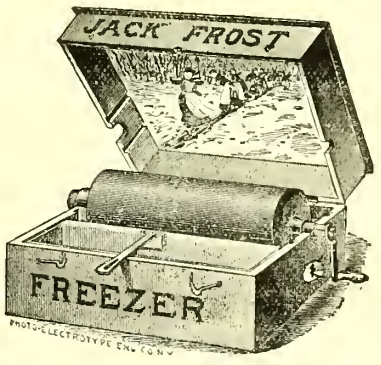
As easily kept clean as a tumbler; can be operated by a child successfully. The "Manny" "does not squeeze," but acts directly upon the pulp, and delivers only the CLEAR, PURE JUICE.

Price, per dozen...	5/6
If 6 dozen, per dozen...	5/3
If 12 dozen, per dozen	5/-

ICE CREAM IN FORTY SECONDS

BY THE

"JACK FROST" FREEZER.



Economy of Ice. Economy of Salt. Economy of Time. Economy of Labour.

NETT PRICE LIST.

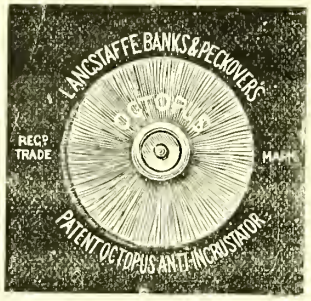
No. 1. Capacity 1 Pint to 2 Quarts .. 10/- each. | No. 3. Capacity 1 Quart to 6 Quarts .. 15/- each.
„ 2. „ 1 „ 4 „ .. 12/6 „ | „ 4. „ 1 „ 8 „ .. 17/6 „

Also all sizes in stock of the "Star," "Lightning," "White Mountain," and "Granite State."

☞ SPECIAL.—We offer at 5/3 each the high-class "Lightning" Ice Cream Freezer, 1 quart size, and guarantee there is no better machine made.

W. B. FORDHAM & SONS, LIMITED, LONDON, N.

"OCTOPUS"



Collects the "FUR" in Kettles, Kitchen Boilers, and Boiler Pipes.

RETAIL PRICES.

Kettle Size	2/6 each.
Small Kitchen Boiler Size ..	5/- „
Medium	7/6 „

Handsome Circulars for distribution free and carriage paid.

MARSHALL'S



GIANT CEMENT.

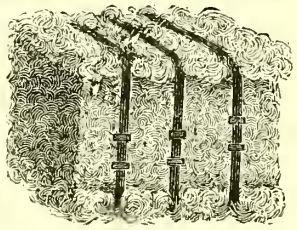
3d.

On Cards of 1 doz., per Card, 1/9.

6d.

On Cards of 1 doz , per Card, 3/6.

WOOD WOOL.

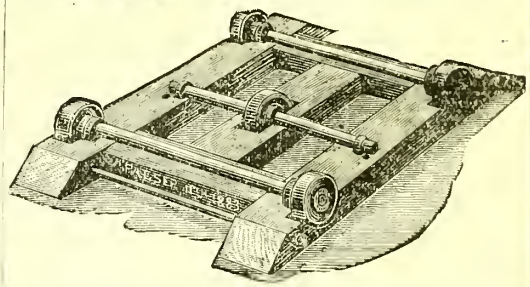


This is used extensively for packing purposes in place of Straw, &c.

We use it largely and can recommend it.

In Bales of 1 cwt., 7/- per cwt.

"SAMSON" WAREHOUSE TRUCK.



A cheap, simple, strong, and efficient improvement for removing heavy loads from place to place.

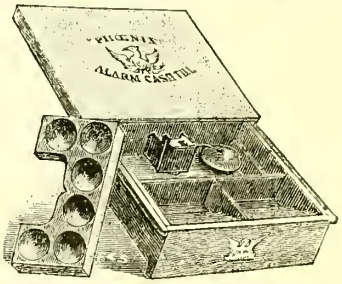
By the adaptation of the Centre Rotating Wheels the load is readily run and steered into any desired position.

	Carrying Capacity.	Measurement.	Price each.
No. 1.	50 cwt. ...	36 in. by 24 in. ...	32/-
„ 2.	30 cwt. ...	22 in. by 16 in. ...	15/-
„ 3.	10 cwt. ...	27 in. by 16 in. ...	6/-

Further particulars upon application.

Nos. 1 and 2 on heavy Iron Wheels, the centre one rotating. No. 3 fitted with strong Wooden Rollers, with centre rotating roller, for light bulky goods.

THE "PHŒNIX" CASH TILL



As a piece of cabinet work is perfect, and without its special advantages well worth its cost. Fixed by four screws in as many minutes by any person.

Reduction in Price.

1 Till, 10/-; 6 Tills, 90/- doz.; 12 Tills, 88/- doz.

TESTIMONIAL UP TO DATE.

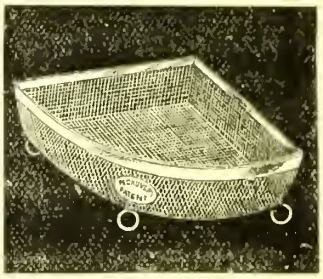
G. P. Jackson & Co., Grocery and Provision Dealers, 132 Bath Street, Ilkeston, wrote June 29, 1893—"Enclosed find cheque for 10/6. Please send me another 'Phœnix' Till. For prevention of petty thefts they are invaluable, and I have tried all sorts from £30 to yours at 10/-.

AMERICAN FOLDING CHAIRS.



These Chairs are full size, and are found useful for the Seaside, Tennis Lawns, Gardens, Conservatories, Offices, Public Rooms, on Shipboard, &c. With Perforated Seats, 30/- per doz.

'Sanitary' Sink Baskets.



Stands in corner of Sink over Waste Pipe, and retains all solid matter from water thrown into it. Ensures Clean Waste Pipe. No Smells—Sink-flooding Prevented. Enamelled White.

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"FLY CEMETERY."



Catch more flies in a day than by any other way.

Price 6/9 per gross.

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In Books containing three Fly Papers, to retail at One Penny per book, perforated to tear out.

Per gross books, 6/6.

The "Daisy" FLY KILLER.



A pretty ornament for the house. Will kill all the flies you have. It has won thousands of testimonials.

Sample of them—

Rev. Dr. Talmage says:—"I can preach with comfort on a summer day if the 'Daisy Fly Trap' is in my church."

4/6 per dozen.

W. B. FORDHAM & SONS, LIMITED, LONDON, N.

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Typke & King

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Howards & Sons
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Hewlett & Sons
Howards & Sons
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Youldon, E.

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Horsyd.J.,&Co.,Lim (Moulds)
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Christy & Co. (Aromaticum)
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National Cash Till Co.
O'Brien, C.
Patent Voucher Check Till Co., Lim.
Stokes, G. R., & Co., Lim.

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Brunner, Mond & Co., Lim.
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Fuerst Bros.
Goodall, Backhouse & Co.
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Hodgkinsons, Treacher & Howards & Sons (Pharm.)
Levermore, Aux., & Co.
Lofthouse & Saltmer
Lorenz, H.
May & Baker, Lim.
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Washington Chemical Co.
White, A., & Sons
Zimmermann, A. & M.

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Burroughs, Welloome & Co.
Evans, Sons & Co.
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Hockin, Wilson & Co.
Lorimer & Co.
Robinson & Co.
Smith, T. & H., & Co.
Woolley, Sons & Co.

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White, Fairchild & Co

COLAPSBL TUBES
Betts & Co

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Blyton, Astley & Co.
Burroughs, Wellcome & Co.
Fuerst Bros.
Hooper, B., & Co. | Leo & Co.
Lloyd, T. Howard & Co.

CONCENT. LIQRS.
Fletcher, Fletcher & Stevenson
Lloyd, T. Howard & Co.

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Crawshaw & Co.
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Gibson, R., & Sons
Guest, T., & Co. | Pascall, J.
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Warrick Brothers

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Solport Bros.

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Robinson & Sons (Absorbent)
Sanger, J., & Sons

CRSHD LINSEED
Mumford, S. G.

DENTIFRICES
Bailey's Toilet Co.
Beecham, T.
Bronnley, H., & Co.
Dorothy Dentifrice Co.
Hanson, O.
Jamieson, W. & J.
Jewsbury & Brown
Lakeman, J. J.
Quelch, H. C.
Ricksecker, Uno
Robertshaw & Co.
Stevens, P. A.
Sutton, O., & Co.
Thompson & Capper
Warrick Bros. | Wilson, A.
Woods, W. (Areca Nut)

DISINFECTANTS
Blyton, Astley & Co.
Brooks, T.
Calvert, F. C., & Co.
Carbo Eucalyptine
Drysdale, J. W., & Co.
Dussek Bros. & Co.
Eureka Manufacturing Co.
Fletcher Bros. & Co.
Government Sanitary Co.
Grindley & Co., Lim.
Izal
Jeyes' Sanitary Compounds Co.
Mackey, Mackey & Co.
Mason, C. E., & Co.
May & Baker, Lim.
National Chemical Co.
Sanitas Co., Lim.
Seabury & Johnson
Tyrer, T., & Co. [Lim.
Wandsworth Chemical Works,

DOG MEDICINES
Heald, A. J.
Spratt's Patent, Lim.

DRUGS
Hopf, R.

DRUGGISTS' SUN.
Ayer, Dr. J. C., & Co.
Ayrton & Saunders
Bailey, M., & Co.
Barclay & Sons, Lim.
Bush, H. W., & Co.
Chemists' Association, Lim.
Chemists' Mineral Water Association, Lim.
Crowden & Garrod
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Fordham, W. B., & Sons, Lim.
Foulkes & Co.
Gilbertson, H., & Sons
Hockin, Wilson & Co.
Idris & Co., Lim.
Jackson, T.
Kay Bros., Lim.
Lindner, M.
"Lunglii" Co.
Lynch & Co
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Quelch, H. C.
Sanger & Sons
Sanitary Wood-wool Co., Lim.
Schutze & Co.
Thomas & Son | Toogood, W. O.
Tyer Rubber Co.
Warne & Co.
Wood, Vincent | Young, J.

DRUG MILLS
Burroughs, Wellcome & Co.

DRYSALTERIES
Browning, J. H., & Co.
Burton, W., & Sons

DYES, &c.
Ayrton & Saunders
Burton, W., & Sons
Crawshaw & Co.
Hatrick & Co., Lim.

EAU DE COLOGNE
Farina, J. M.
Hockin, Wilson & Co. (Farina)
Martin, Maria (Nun)
Moenich, Oscar, & Co.
Mulhens, F.

ELECTRIC APPAR.
Darton, F., & Co.
Gent & Co. | Orme & Co.

EMBROCATION
Day & Sons

ENEMAS
Barclays, Lim.
Evans, Sons & Co
Ingram, J. G., & Son
Sanger & Son

ENGRAVERS
Corsan, J. R.

ESSENCES
Boehm, Fredk.
Boulton, J., & Co. (Lim.)
Bratby & Hinchliffe, Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Fletcher, Fletcher & Stevenson
Goodall, Backhouse & Co.
Idris & Co., Lim.
May & Baker, Lim.
Meadowcroft & Son
Newball & Mason
Rylands, Dan, Lim.
Stevenson & Howell
Tyrer, P. (Anchovies)
Tyrer, T., & Co.
Woolley, Sons & Co.

ESSENTIAL OILS
Allen, Stafford, & Sons
Barrett, A. A.
Boehm, Fredk.
Brommerstaedt & Lüders
Bush, W. J., & Co.
Clay, Dod & Co.
Cocking & Co. (Japan Pepper-Dodge & Olcott [mint)
Evans, Sons & Co.
Hodgkinsons, Treacher & Clarke
May & Baker, Lim.
Meadowcroft & Sons
Rylands, Dan Lim.
Sozio & Andriolo
Stevenson & Howell
Symes & Co.
Treatt, R. C.
Vogt, G., & Co.
Warrick Bros.
Witrofsky, E.
Wright, Layman & Umney

ETHER
Duncan, Flockhart & Co.
Howards & Sons
May & Baker, Lim.
Rohhius, J., & Co.
Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

EUCALYPTUS
Bickfords | Bosisto's
Drysdale, J. W., & Co.
Evans, Lescher & Webb
Fletcher, Fletcher & Stevenson
Grimwade, Ridley & Co.
Laughland, Mackay & Baker
Macsay, Mackay & Co.
Murdoch, J., & Co.
Tasmanian Eucalyptus Oil Co.
Vogt, G., & Co.
Woods & Co.

EXALGINE
Kunu, B.

EXTRACT MEAT
Brana & Co.
Bush's Liquid Beef
Idris & Co. (Viking Co.)
Liebig Co.
Liquor Carnis Co., Lim.
Mason, G., & Co., Lim.
Wyeth, J., & Brother

EXTRCTS, FLUID
Allen & Hanburys
Burgoyne, Burbidges & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Stevenson
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd T., Howard, & Co.
Moss & Co.
Potter & Clarke
Vogt, G., & Co.
Wright, Layman & Umney

FEEDG BOTTLES
Burroughs, Wellcome & Co. (Thermo Safe)
Chemists' Association, Lim.
Evans, Sons & Co.
Hearn, Wright & Co.
Hockin, Wilson & Co.
Kilner Bros. | Lynch & Co.
Marriott, E., & Co.
May, Roberts & Co.
Maw, S., Son & Thompson
Sponce & Co.

FILTERS
Berkefeld Filter Co.
Fordham, W. B., & Sons, Lim.
Mawson Filter Co.
Silicated Carbon Filter Co.

FLY PAPERS
Ford, Shapland & Co.
Strong & Christy
Tunbridge & Wright

FOOD (Infants' & Invalid's
Allen & Hanburys
Benger's Food
Brand & Co.
Chibnall, H. B.
Evans, Sons & Co.
Frame Food Co., Lim.
Goodall, Backhouse & Co.
Hearon, Squire & Francis
King & Co.
Liebig Co.
Liquor Carnis Co., Lim.
Lorimer & Co.
Mason, G., & Co. Lim.
Nestlé, H.
Ridge, Dr.
Tyrer, P.
Viking Food Co.
Wyeth, J., & Bro.

FORMULA
Brooks, T.

GINGER ALE
Mills, R. M., & Co.

GLYCERINE
Blyton, Astley & Co. (Pastilles)
Boehm, F. | Fink & Co.
Fuerst Bros.
Greeff, R. W., & Co.
Price's Candle Co., Lim.
Watson & Sons

GOUT & RHEUMATIC PILLS
Bromley, C.
Eade, Geo.
Prout & Harsant (Blair's)

GRANULAR PREP.
Bishop, A., & Sons
Blyton, Astley & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Wright, Layman & Umney

GUM
Fink & Co. (Arabic, &c.)
Levermore, Aug., & Co.

HAIR PREP.
Anglo-American Drug Co., Lim.
Chesebrough Co.
Edwards & Co.
Ricksecker, Uno
Truefitt, H. P., Lim.

HERB BEER EXTS
Newhall & Mason
Potter & Clarke

HERBS
Newhall & Mason
Potter & Clarke

HOMŒOPATHIC
Epps & Co.
Keene & Ashwell
Leath & Ross
Thompson & Capper
Watson & Wates

HYPOPHOSPHITES
Duncan Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Symes & Co.
Tyrer, T., & Co.

INDIARUB. GOODS
Tyer Rubber Co.
Warne, W., & Co.

INHALERS
Burroughs, Wellcome & Co.
Hockin, Wilson & Co.
Krohne & Sesemann
Spirone, Co., The
Toogood, W.

INK [See MARKING INKS]
Bewley & Draper

INSECTICIDES
Rocke, Tompsitt & Co.
Steiner & Co.

INSURANCE
London and Lancashire Fire Insurance Co.

JARS
Rylands, Dan, Lim.

KETCHUP
Tyrer, P.

KOLA PREPRTN
Christy, T., & Co.

LARD
Ewen, J., & Sons

LIME JUICE
Evans, Sons &.Co.
Lorimer & Co.

LINT
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sone

LIQUORICE
Dennie Di Luggo & Co.

LITHIA
Fuerst Broe.

LOZENGES
Allen & Hanburys
Blyton, Astley & Co.
Davidson & Gray
Gibson, R., & Sons (Manfre.)
Hill & Son
Jackson, T.
Lorimer & Co.
Raimes & Co. | Warrick Broe.

MACHINERY
Bennett, Sons & Shears
Burroughs, Wellcome & Co.
Gardner, W.
Hardy Patent Pick Co., Lim.
Mayfarth, Ph., & Co.
Obison, A.
Pindar, J. W.
Struttuers & Craig (Siftinz)
Werner & Pfleiderer (Kneading and Siftinz)

MAGNESIA
Bueh, W., Son & Co.
Duncan, Fuller & Co.
Evane, Sons & Co.
Greeff, R. W., & Co.
Henry, T. & W. (Calcined)
Hill, A. S., & Sons
Washington Chemical Co.

MALT EXTRCT, &c.
Allen & Hanburye
Anderson & Co.
Burroughs, Wellcome & Co. (Kepler's)
Glendenning, W.
Hearon, Squire & Francis
Lorimer & Co.
Mose, J., & Co.
Raimes & Co.
Richardson, John, & Co. (Leicester), Lim.
Robinson & Co.

MARKING INKS
Bond, John (Crystal Palace) (Ink and Pencils)

MEDICINE CHSTS
Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)

MENTHOL
Burroughs, Wellcome & Co.
Christy, T., & Co.
Cocking & Co.
Duncan, Fuller & Co.
Evane, Sons & Co.
Hockm, Wilson & Co.
Tyrer, P. | Vint, T. D.

MERCURIALS
Fueret Broe.
Howarde & Sone
May & Baker, Lim.
Tyrer, T., & Co.

METH. SPIRTS, &c.
Boord & Son | Burrough, J.
Jouee & Co.
Phillips, G., & Co.
Smith, S., & Co.

METHYLENE
Robbine, J., & Co.

MICROSCOPES
Darton, F., & Co
Perken, Son & Rayment

MILK
Nestlé, H. (Condeneed)

MORPHIA
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

NIGHT LIGHTS
Clarke's Fairy Light Co., Lim.

OILS, PAINTS, &c.
Browning, J. H., & Co.
Fox, W., & Sons
Gray, W., & Co.
Pinchin, Johnson & Co.

OINTMNT BASES
Burgees, E.
Burgese, E., jun.
Burroughe, Wellcome & Co. (Lanoline)
Chesebrough Co. (Vaseline)
Christy, T., & Co.
Lanoline
Lloyd, T. Howard, & Co.
Richardeon, J., & Co. (Leicester), Lim. (Anaepaline)

OPIUM
Hopf, R.

OPTICIANS
Botwright & Grey
Darton, F., & Co.
Perken, Son & Rayment

OTTO OF ROSE
Fuerst Bros.
Witrofsky, J. R.

OXIDE OF ZINC
Hubbuck, T., & Son, Lim.

PAPAIN
Kühn, B. (Dr. Finkler)

PAT. MEDCNS, &c.
Anglo-Amer. Drug Co., Lim.
Atkinson & Barker (Infant Preserv.)
Barclay & Sone, Lim.
Beecham, T. (Pills)
Bow's, Dr., Liniment
Bromley, C. (Gout and Rheu.)
Chemists' Association, Lim.
Clarke's Blood Mixture
Congreve, G. F.
Edwards & Son
Evane, Lescher & Webb
Fassett & Johneon
Fenning (Powders)
Goodall, Backhouse & Co.
Holloway (Pills and Oint.)
Hovenden & Sons
Lalor (Phosphodyne, &c.)
May, Roberts & Co.
Newbery, F., & Sons
Popular Remedies Mfg. Co.
Roberts & Co. (Foreign)
Rooke, Dr., Lim.
Southall Bros. & Barclay
Sutton, W., & Co.
Wilson, A. (Bunter's Nervine)

PEPPERMINT OIL
Bush, W. J., & Co.
Cocking & Co.
Stevenson & Howell

PEPSIN, &c.
Armour & Co.
Burroughs, Wellcome & Co.
Chassaing & Co.
Fletcher, Fletcher & Steveneon
Kühn, B.
Lorimer & Co.
Newbery, F., & Sons (Ingluvin)
Stern, G. & G.
Warner & Co. (Ingluvin)

PEROX. OF HYDR
Burton, W., & Sons
May & Baker, Lim.
Robbins & Co.

PERFUMERY, FANCY SOAPS
Barclay & Sons, Lim.
Bleasdale & Co.
Blondeau & Cie. | Boehm, F
Blyton, Astley & Co.
Brooks, T. (Solid Perfume)
Bummerstaedt & Lüders
Burroughs, Wellcome & Co.
Bush, W., & Co.
Chemists' Association, Lim.
Chesebrough Co.
Crown Perfumery Co.
Evans, Sons & Co.
Ewen, J., & Sone
Farina, J. M.
Hovenden & Sone
Lanoline
Mulhens, F.
Newbery, F., & Sone (Berdoes Peare', A & F., Lim.
Price's Patent Candle Co.
Ricksecker, Uno
Sandoid & Co.
Sozio & Andrioli
Tidman & Son | Treatt, R. C.
Truefitt, H. P., Lim.
Warrick Brothers
Weet, T. (Okell's Mona)
Woolley, Sone & Co. (Powder)
Wright, Layman & Umney

PETROLEUM
Allen & Hanburys
Barclay & Sone, Lim.
Dee Oil Co., Lim.
Fueret Bros. (Jelly)

PHARM. PREPS.
Allen & Hanburys
Anderson & Co.
Armour & Co.
Baiss Broe.
Barron, Harveye & Co.
Bieber, J. D.
Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Brady & Martin
Bryce & Rumpff
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Chaeeaing & Co.
Duncan, Flockhart & Co.
Ferris & Co.
Fletcher, Fletcher & Co.
Gilee, Schacht & Co.
Hearon, Squire & Francis
Hewlett & Son
Howards & Sone
Jeyes' Sanitary Compounds Co
Lambert Pharmacal Co.
May & Baker, Lim.
Moss, J., & Co.
Oppenheimer, Son & Co.
Potter & Clark
Richardson, John, & Co. (Lei-
Roberts & Co. [ceeter), Lim.
Smith, T. & H., & Co.
Southall Bros. & Barclay
Sutton, W., & Co.
Symee & Co.
Tyrer, T., & Co.
White, Alfred, & Sons
Woolley, Sone & Co.
Wyetb, Jno., & Bro.
Zimmermann, A. & M.

PHOTOGRAPHIC
Artistic Photo Co.
Barclay & Sons, Lim.
Blackfriars Photographic Co
Boehm, Fredk.
Bolwright & Grey
Burroughs, Wellcome & Co.
Darton, F., & Co.
Fuerst Bros.
Howards & Sons (Chemicals)
Kent, G. B., & Sons
Orme, J., & Co.
Perken, Son & Raymeut
Rost & Co.
Tyrer, T., & Co.
White, Alfred, & Sone
Zimmerman & Co.

PILL MACHINES
Pindar, J. W.
Toogood, W. (Coater)
Werner & Pfleiderer

PILLS (Coated, &c.)
Allen & Hanburys
Anderston Apothecaries' Hall
Beecham, Thomas
Blyton, Astley & Co.
Bromley, C. (Gout & Rheu.)
Burgess, E.
Bargees, E., jun.
Clay, Dod & Co.
Davidson & Gray
Deacon, H. J.
Dr. Williams
Duncan, Flockhart & Co.
Eade's Gout Pills
Evans, Sons & Co.
Harrolme Pill Co.
Hearon, Squire & Francis
Hill, A. S., & Son (Holloway's)
Jolly & Son, Lim.
Lloyd, T. Howard, & Co.
Lorimer & Co.
McKesson & Robbins
Newbery, F., & Sons
Potter & Sueser
Richardson, J., & Co., Lim.
Waud, S (Pearl Coated)
Warner, W. R., & Co. (Coated)
Wyeth, J., & Bro.

PLASTERS
St. Damas, A.
Evans, Sons & Co.
Johnson & Johnson
Seabury & Johnson

PODOPHYLLIN, &c.
Smith, T.

POLISHING
Brauley & Bonrdas (Albatum
Chancellor & Co.
Fordham, W. B., & Sons, Lim
Oakey, John, & Sons

PORCELAIN GDS
Toogood (E.C. Pots, regist.)

POULTRY FOOD
Spratt's Patent, Lim.

PRECIP. CHALK
Levermore, Aug., & Co.
Mason, A. H., & Son

PRINTING
Bowere Bros.
Bryan & Co.
Corsan, J. R. (Glass)
Ford, Shapland & Co.
Hildesheimer, A. (Colour)
Silverlock, H.
Smitu's Printing Ageucy
Taylor Bros. | Townsend, J.

PUMILINE
Stern, G. & G.

QUININE SALTS
Boehringer, C. F., & Sohne
Howards & Sone
Zimmermann, A. & M.

RECIPES
Brooke, T.

RENNET
Duncan, Flockhart & Co.

RUBBER
Maw, S., Son & Thompeon
Tyer Rubber Co.
Victoria Rubber Co.
Warne & Co.

SACCHARIN
Allen & Hanburye
Burroughs Bros.
Burroughs, Wellcome & Co.

SALICIN
Macfarlan & Co.
Smith, T. & H., & Co.

SALICYLIC ACID
Burgoyne, Burbidges & Co.
Fuerst Bros. | Kuhn, B.
Zimmermann, A. & M.

SAUCES, PICKLES
Goodall, Backhouse & Co.
Lorimer & Co.
Mason, G., & Co., Lim.
Tyrer, P.

SCIENTIFIC INSTRUMENTS
Darton & Co.
Orme & Co.
Roes & Co.
Wilson, G. W., & Co. (Lim.)

SCHOOLS, &c.
City School of Chemistry and Pharmacy, Lim.
Liverpool School of Pharmacy
London Homeopathic and Medical School
Manchester Coll. of Pharmacy
Northern School of Pharmacy
Sheffield School of Pharmacy
South London School of Pharmacy, Lim.
The School of Pharmacy
Westminster College

SEEDS
Potter & Clarke

SELTZOGENES
Bratby & Hinchliffe, Lim.
British Syphon Co.
Evans, Sons & Co.
Fordham, W. B., & Sons, Lim.
Gerant, E., & Co.
May, Roberts & Co.

SHAVING
Hovenden & Sons (Euxesie)
Lloyd, Mrs. A. S. (Euxesis)

SHEEP DIP
Fletcher Bros. & Co.
Jeyes' Sanitary Compounds Co.
Tomlinson & Hayward
Wandsworth Chemical Works, Lim.

SHOP FITTERS
Bowling & Govier
Bygrave, J. & W.
Evans, Sons & Co.
Howlett, S. | Josephs, P.
Nalait & Co. | Nalait, E.
Poths, H., & Co.
Trebe, G., & Co.

SOAP
Ayrton & Saunders
Barclay & Sons, Lim.
Blondeau et Cie. (Vinolia)
Bromley, H., & Co.
Calvert, F. C., & Co.
Cook, E., & Co.
Dodd Bros.
Fordham, W. B., & Sone, Lim.
Jeyes' Sanitary Compounds (Co.
Maniens, F.
Pears, A. & F., Lim.
Price, Napoleon, & Co., Lim.
Wright, Layman & Umney

SODIUM PEROXD.
Barton, W., & Sons

SPECTACLES
Bolwright & Grey
Darton, F., & Co.
Perken, Son & Rayment

SPONGES
Cresswell Bros. & Schmitz
Evans, Sons & Co.
Peterson, M., & Co.

STAMPS (RUBBER)
Hickisson, J.

STARCH
Chancellor & Co. (Mack's
Critchley (Glues) [Double)

STOPPERS
Austin & Co. (Sprinklere)
Barnett & Foster | Mellu, C.

STOVES
Clark, S., & Co., Lim.

SUGAR
Blyton, Astley & Co.
Fletcher, Fletcher & Steveneou
Gibson, R., & Sone

SUGAR OF MILK
Boehm, Fredk.
Burroughs Bros.

SULFONAL
Burroughe, Wellcome & Co.
May & Baker, Lim.

SURGICAL
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim.
Brady & Martin
Cocking, J. T.
Escamann Bros. & Walsh
Haywood, J. H.
Krohne & Seeemann
Liverpool Patent Lint Co.
Macfarlau, J. F., & Co.
Powell & Barstow
Quelch, H. C.
Richardson, John, & Co. (Leicester), Lim.
Robineon & Sons
Schultze, F., & Co.
Tyer Rubber Co.
Victoria Rubber Co.
Wood, Vincent

SYPHONS
Barnett & Foster
Bratby & Hinchliffe, Lim.
British Syphon Co.
Fordham, W. B., & Sons, Lim.
Idris & Co., Lim.
Kilner Broe. | Mellu, C.

SYRUPS
Blyton, Astley & Co.
Fletcher, Fletcher & Steveneon
Idrie & Co., Lim. [(Liquore)

TABLETS
Blyton, Astley & Co. (Sulphur)
Corsan, J. R. (Advertising)

TEA
Gt. Tower St. Tea Co.
Pearse & Measing

TEETHING PADS
Marriott, E., & Co.

THERMOMETERS
Bailey, W. H., & Son
Barclay & Sons, Lim.
Darton, F., & Co.
Evans, Sons & Co.
Hicks, J. J.
Newbery, F., & Sons
Perken, Son & Rayment

TINCTURES
Bieber, J. D.
Evans, Sons & Co.
Hewlett, C. J., & Son

TINS & CANISTRS
Gilbert, J. A., & Co.

TOBACCO
Singleton & Cole (Lim.)

TOILET
Allen & Hanburye (Chrisma)
Burroughs, Wellcome & Co.
Dee Oil Co., Lim. [(Lanoline)
Hovenden & Sons
Lindner, M.
Lorimer & Co.
Quelch, H. C.
Ricksecker, Theo.
Truenatt, H. P., Lim.

TOOTH BRUSHES
Maw, S., Son & Thompson

TOOTH PASTE
Anglo-American Drug Co., Lim.
Beecham, T. [Lim.
Jewsbury & Brown
Sutton, O., & Co. (Block)
Wilson, A. (Bunter's)
Woods, M. (Areca)

TRADE MARKS
Browne, T. B.

TRUSSES
Bailey, W. H., & Son
Evans, Sons & Co.
Haywood, J. H. | Wood, V.

URETHANE
Howards & Sons

VACCINATION
Sanitary Wood-wool Co., Lim. (Shield)
Vaccine Association (Lymph)

VALUERS & TRNSFR AGNTS
Andros & Co.
Berdoe & Co. | Brett, F. J.
Crocker, G. B., & Co.
Orridge & Co.

VASELINE
Chesebrough Co.

VETERINARY
Bird & Storey | Day & Son
Day, Son & Hewitt
Elliman, Sons & Co.
James, W. H. (Blistere)
Jeyes' Sanitary Compounde Co.
Lloyd, T. Howard, & Co.
Lorimer & Co.
Rookledge, F. E.
Spratt's (Dogs)
Walkers, Troke & Co.

VINOLIA (Superf'tt'd)
Blondeau & Cie.

WEED KILLER
Acme Chemical Co., Lim.
Smith, M., Lim.

WHOLSL & EXPRT DRUGGISTS
Allen & Hanburys
Allen, Stafford, & Sons
Baiss Bros.
Barron, Harveye & Co.
Brady & Martin
Burgoyne, Burbidges & Co.
Buen, W., & Co.
Bush, W. J., & Co.
Clay, Dod & Co.
Curling & Co.
Delacre, Ch., & Co.
Evane, Sone & Co.
Evane, Lescher & Webb
Fassett & Johneon
Ferris & Co.
Fox, W., & Sons | Graf, F
Goodall, Backbouee & Co.
Harker, Stagg & Morgan
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Son [Clarke
Hodgkinsone, Treacher &
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
Murdoch, J. R., & Co.
Potter & Clarke
Richardson, J., & Co.
Symes & Co.
Thompson & Capper
Walkere, Troke & Co.
Willowe, Fraucie & Butler
Woolley, Jas., Sons & Co.
Wright, Layman & Umney
Wyleye (Lim.)

WINES, SPIRITS
Armbrecht, Nelson & Co. (Coca)
Burrough, J.
French Hygienic Socy. (Coca)
Goodall, Backhouee & Co.
Hirst, Brooke & Hirst, Lim. (Orange)
Idris & Co., Lim. | Jackson, T.
Millar, A., & Co. (Orange)
Robinson, B.
Smith, S., & Co. (Orange)

SUPPLEMENTS TO THE SUMMER ISSUE, JULY, 1893.

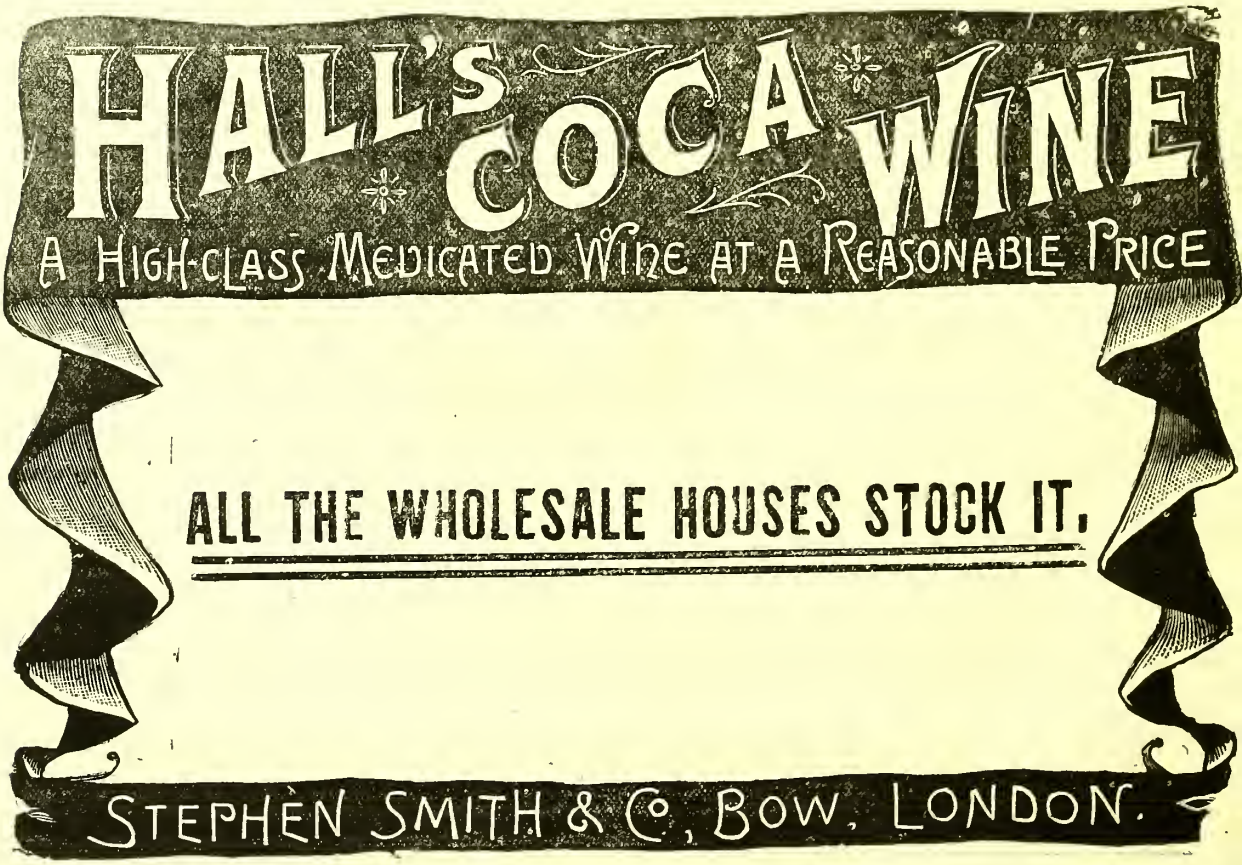
PRICE LISTS, CIRCULARS, &c., appearing in this Issue of 'THE CHEMIST AND DRUGGIST.'

ANDERSON & CO. ..... *Pharmaceutical Preparations*
AYER, DR. J. C., & CO. ..... *Standard Family Medicines*
BENNETT, SONS & SHEARS .. *Plant for Chemical Works & Laboratories*
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Pyramid Night Light, Watch Holder, "The Burglars' Horror," &c.
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Complete Price List of Druggists' Sundries, Patent Medicines, &c.
NEWBALL & MASON. *Mason's Extracts, Wine Essences, Extract of Herbs*
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SMITH'S PRINTING & PUBLISHING AGENCY .... *Chemists' Printing*
SPRATT'S PATENT (LIM.)
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Phenolas Disinfectants, Carbolic Disinfectants, Sheep Dip

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WINTER ISSUE, JANUARY, 1894.

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Suitable for Seaside Sale, &c.

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Hinged metal tubes 3/6
Fixed ditto, with cork 3/9

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Ditto, 1/- 7/6
Ditto, 1/6 .. .. 11/6

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Bone, straight, No. 1 6*d.* 4 6
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Per doz.
6*d.* 2 3
1/- new shape 6,6

LOOFAHS.
6*d.*, 3/-; 9*d.*, 5/-; 1/-, 7/6 per doz.

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4*d.* ditto 2/6
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1/- ditto 6 9

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6*d.* boxes 3/9
1/- ditto 8/-
2/6 ditto 21/-

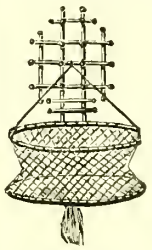
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6*d.* rolls.. .. .. 3/6
9*d.* ditto, thin 6/-
1/- medicated 7,6

PERFUMES.
2*d.* assorted 1 3
2*d.* Musk Lavender.. .. .. .. 1 2
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3*d.* May Blossom and White Rose .. 2/-
6*d.* assorted 3 9
1/- ditto 7/3

SMELLING-SALT BOTTLES.
A very nice selection kept in stock. All prices from 2/1 per doz. upwards.

Illustrated Price List sent on application

SPONGES ON CARDS.
Retail 1*d.* 2*d.* 3*d.* 4*d.* 6*d.* 1/-
Per doz. 6*d.* 1/- 1 6 2/- 3/- 6/-



SPONGE NETS.

Retail 6*d.*, 4,6 per doz.
„ 1/-, 8/- „
„ 1/6, 12/- „

Fig. 253.

SPONGE BAGS. Best Quality.
No. 1 2 3 4 5 6
Per doz 4 6 5 6 7/- 8 6 10/- 12/-

SPRAY PRODUCERS (for Perfume).
Per doz.
1/- single ball 8/-
1 6 pump, metal mounts 10/-
3,6 double ball 27/-

TEETHING TEATS.
Bone or rubber ring 2/9

THERMOMETERS.
6d., 1 doz. on gold-blocked card 4/-

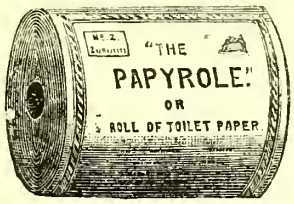
TOILET PAPERS. In Packets.
3*d.* Manila 2/-
6*d.* soft Japanese 2,6

TOILET PAPERS (Papyroles).
6*d.* perforated.. .. .. 3/6
9*d.* ditto 6/-
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"PAPYROLES"

(TITLE ENTERED AT STATIONERS' HALL).

VERSUS



PILES.

It is a well-known but oft-forgotten fact that much suffering and, indeed, injury is caused by the thoughtless use for sanitary purposes of *insanitary* old newspapers, handbills, &c. Printers' ink is, in this connection, especially harmful, and hence it is that printed paper, although eminently suitable for the purpose of lighting fires, should be sedulously avoided as an article of the toilet.

PAPYROLES (or Rolls of Paper) are both convenient and safe. They come in neat rolls, perforated so that a sheet can easily be torn off, thus avoiding all waste and unsightly litter.

PAPYROLES are sold by any Chemist at the following prices—viz., **6d., 9d.,** and **1s.** each. The 9*d.* Roll is a very *strong* but *thin* paper, and the **1s.** Roll consists of a very high-class medicated paper, serving also as a disinfector, on account of the fragrant and pungent smell of turpentine which it *emits* and which lasts for years.

FRANCIS NEWBERY & SONS, CHEMISTS' SUNDRIESMEN,
1 and 3 KING EDWARD STREET, LONDON, E.C.



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(OR BRAIN SALINE. TITLES REGISTERED).

"Brain Salt" suits sufferers, pleases the public, is recommended by Medical Men, and should be kept by Chemists generally. Contracts have been made for continuous high-class advertising, and the sale of the preparation is assured. One size only, 2/9 retail, and price not "cut."

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Bristol's Pills.
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Horsford's Acid Phosphates.
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SOLE AGENTS for, or PROPRIETORS of

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Warner's (W. R. & Co.) Pharmaceutical Preparations.

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Retail 2/-; per doz. 17/-. (1 doz. for 16/6.)

Attention is invited to the increased profit now secured by the sale of this old-established and EFFECTIVE Remedy.

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SUGAR-COATED PILLS.



Vase with Label in Gold and Colours. Height 9⅝ ins. Each, net, 3,8 (nearly 1 lb.)

"BALLOON PILL

Cut Stopper, Neck, Foot, and Pedestal. Containing 3,000 "Little Cathartic Granules."



The "Little Cathartic Granules" are small sugar-coated pills containing aloin, podophyllin, jalapin, hyoscyamus, nux vomica, and capsicum. We can speak to their activity and to the immunity from griping, &c. Their small size will be a recommendation in the eyes of the great majority of patients.—*Med. Press and Circular*, 23 *Nov.*, 1892.

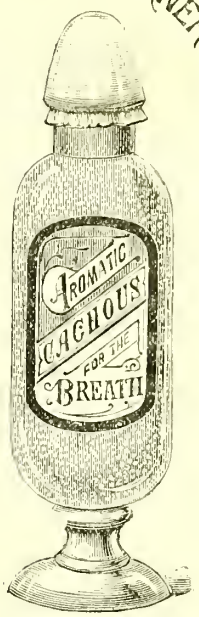
PATTERN" VASE.

Height ... 11 ins.

Width ... 3½ ins.

Depth ... 2⅝ ins.

With 3,000 Granules, Each 15/6 net.



Height about 11 ins. CACHOUS, "Aromatic for the Breath." Ornamental Patent Glass Vases, with gilded and coloured Labels for the Counter, 6/ each. These Cachous are coated with Sugar, silvered and burnished.

W. R. WARNER & CO.'S QUININE PILLS.

SPECIAL REDUCED RATES, 1893.

Half-grain per 1,000, 3/10 .. .. .. Two Grains per 1,000, 8/- .. .. .. Five grains per 1,000, 20/-
One Grain ,, 5/9 .. .. .. Three ,, 12/- .. .. .. (Uclatine coated only.)

(These rates apply to 1,000 and upwards of any one Pill.)

Superiority and Reliability of Sugar-coated Quinine Pills prepared by W. R. WARNER & CO.

QUININE PILLS of our make are prepared from **Sulphate of Quinia** noted for its **purity and excellence.** Each Pill contains the **full complement of material** as expressed on the label, without the necessity of adding any excess to compensate for impurities. They are **perfectly soluble,** and physicians can depend upon obtaining the **full benefit** of this valuable remedy in a **pleasant form.** Always specify **"W. R. WARNER & CO.," and avoid the substitution of cheaper and inferior brands.**

SUGAR-COATED QUININE PILLS.—I take the pleasure in testifying that **W. R. Warner & Co.'s Quinine Pills** are practically just what they claim to be, whether judged by analytical tests or by the therapeutic effect obtained from their use.

A. B. LYONS, M.D., *Analytical Chemist, Detroit, Mich.*

VASES OF PILLS, Labelled as under, usually in Stock.

SOLUBLE SUGAR-COATED ANTIBILIOUS PILLS, &c.

Aperient Pills	Compound Podophyllin Pills	Cough Pills	Female Pills	Pil. Rhei Co.
Cathartic and Liver Pills	Compound Rhubarb Pills	Digestive Pills	Liver Pills	Podophyllin Granules
Cochia Pills	Compound Steel Pills	Dinner Pills	Neuralgic Pills	Tonic Pills

The numbers refer to Warner's List (free on application to any part of the World), in which the formulæ will be found.

No.		*Vase of 1,000 £ s. d.	Without Vase £ s. d.
25.	**Pil. Aloes et Assaf. B.P.**	0 9 4	0 7 0
27.	**Pil. Aloes et Ferri B.P.**	0 9 4	0 7 0
30.	**Pil. Assafœt. Co B.P.**	0 11 4	0 9 0
36.	**Pil. Coloc. et Hyos. B.P.**	0 13 10	0 11 6
38.	**Pil. Ferri Carb. B.P.**	0 11 4	0 9 0
39.	**Pil. Hydrarg. gr. iii B.P.**	0 11 4	0 9 0
41.	**Pil. Ipecac. c. Scilla B.P.**	0 11 4	0 9 0
49.	**Pil. "Antibilious" Veg...**	0 12 6	0 10 2
55.	**Pil. Cathart. Co.** (Vegetable)	0 12 6	0 10 2
58.	**Gran. Ext. Nuc. Vomicæ**	0 9 6	0 7 2
63.	**Gran. Podophyllini ¼ gr.**	0 9 6	0 7 2
82.	**Pil. Tonici**	0 17 0	0 14 8
88.	**Pil. Aperiens sine Calomel**	0 13 6	0 11 2
91.	**Pil. Coloc. c. Hyd. et Hyos.**	0 14 6	0 12 2
94.	**Gran. Calcium Sulph. ½ gr.**	0 13 6	0 11 2
96.	**Pil. Calomel gr. ii.**	0 9 6	0 7 2
97.	**Pil. Opii. gr. i.**	0 14 6	0 12 2
100.	**Pil. Copaibæ Co.**	0 15 6	0 13 2
120.	**Pil. "Cathartic and Liver"**	0 6 4	0 4 0
125.	**Pil. Rhei Co B.P.** (small)	0 9 4	0 7 0
126.	**Pil. Cathart. Co.** (active 1 lb.)	0 7 10	0 5 6
129.	**Pil. Digestiva**	0 15 6	0 13 2
134.	**Pil. Podoph. et Hyos.**	0 13 6	0 11 2
136.	**Pil. "Chalybeate"** (Blaud)	0 14 0	0 11 8
142.	**Gran. Cathart. Co.** ("Little Cathartic Granules"), small vase	0 5 6	0 4 0
143.	**Gran. Podophyllini ½ gr.**	0 12 6	0 10 2
145.	**Pil. "Rheumatic"**	1 0 0	0 17 8
150.	**Pil. Cochiæ**	0 6 10	0 4 6
151.	**Pil. Hyd. c. Creta ½ gr.**	0 4 10	0 3 4
156.	**Pil. Ext. Cocæ gr. iii**	0 18 4	0 16 0
160.	**Pil. Syphilitic**	1 6 6	1 4 6
163.	**Pil. Blaud** (White), No. 2	0 9 10	0 7 6
164.	**Cascaræ Co. gr. iii.**	0 19 6	0 17 2
172.	**Pil. Cochiæ**	0 6 10	0 4 6
180.	**"Little Cathartic" with Euonymin** ..	0 5 6	0 4 0

* *The Vase quoted is of similar pattern to that labelled "Aromatic Cachous" above represented.*

Special Figures for Pills in Bulk Bottles of 5,000, &c.

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F. NEWBERY & SONS

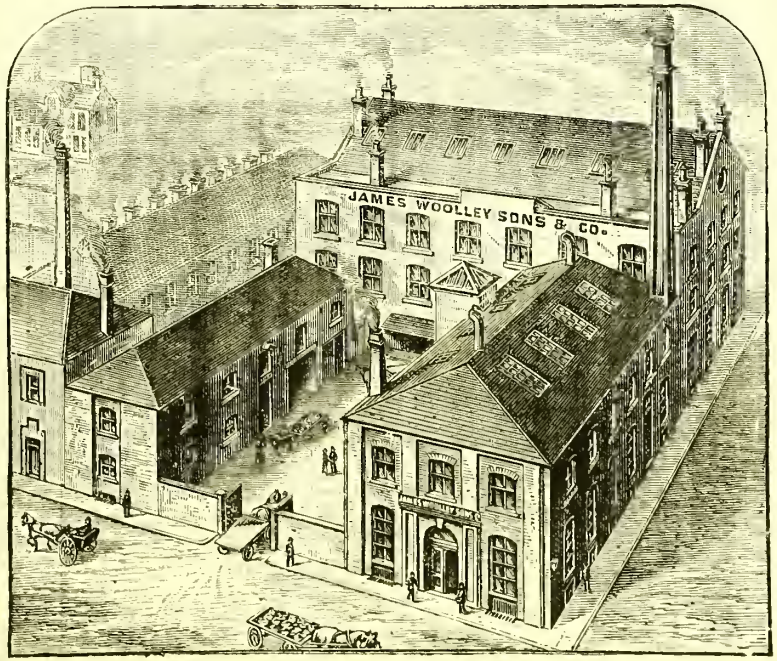
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JAMES WOOLLEY, SONS & CO.

DRUG MILLERS,

WHOLESALE AND EXPORT DRUGGISTS, AND MANUFACTURING PHARMACEUTICAL CHEMISTS.



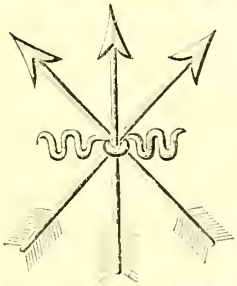
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KNOWSLEY STREET, CHEETHAM.



New Warehouse, Offices, and Showrooms
VICTORIA BRIDGE.

MANCHESTER.

JAMES WOOLLEY, SONS & CO.

TRADE  MARK.

MANUFACTURERS OF

Spirit of Nitrous Ether.

Prepared by distillation, and guaranteed when sent out to answer the official tests.

Aromatic Spirit of Ammonia.

Distilled from Volcanic Ammonia.

Solution of Ethyl Nitrite.

Containing 3 per cent. of PURE NITRITE of ETHYL in Absolute Alcohol and Glycerine.

Isobutyl Nitrite.

For use in Angina Pectoris by inhalation. More active and reliable than the official Amyl Nitrite.

Levigated Ointments.

Prepared by Steam-power.

Tasteless Coated Pills.

With Pearl or Gelatine Coating. Soluble in Cold Water.

Concentrated Infusions, Decoctions, and Soluble Essences. Fluid Extracts, &c.

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CHEMICAL, PHARMACEUTICAL, AND PHOTOGRAPHIC APPARATUS,

DRUGGISTS' SUNDRIES, &c.

TRUSSES OF EVERY DESCRIPTION MANUFACTURED ON THE PREMISES.

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EXCHANGE COLUMN.

FOR DISPOSAL.

Proprietary Articles.

Wan l's cough-cure. 23 at 2*s.* 9*d.*. 30 at 1*s.* 1½*d.*; Wilson's pectoral syrup. 6 at 2*s.* 9*d.*. 21 at 1*s.* 1½*d.*; seven barks, 13 at 2*s.* 9*d.*; Long's maggot-lotion, 9, at 2*s.*. 8 at 1*s.*; Dobson's black-leg drinks, 6 at 5*s.* 6*d.*, 12 at 3*s.*, 5 at 1*s.* 6*d.* What offers, whole or part? No reasonable offer refused. R. Carruthers, 90 High Street, Dumfries.

Formulæ.

For sale, 130 well-tried recipes, neatly copied in book, post, 1*s.* 6*d.* Tully, Chemist, Hastings.

For sale, recipe for non-exeisable ginger-wine essence; an original formula, producing an essence of great aroma and fine flavour; no alcohol used; price 5*s.* R. B. Huggins, Chemist, Wainfleet, R.S.O.

You could make a pile of money by the aid of my valuable formulæ. The undermentioned 25, abstracted from my detailed printed lists of 430 (which will be forwarded post free on application), are strongly recommended as a most useful set, and invaluable to any chemist introducing proprietaries; recipes, 1*s.* 1*d.* each, 6 for 5*s.*, 25 for 1*l.*: quinine and iron tonic; limes and glycerine; sanitary furniture-cream; oatmeal, &c., lotion; skin-pills; blood-cleanser; headache-powders; beauty-cream; lavender salts; corn-cure; glucoten (cement); bronchitis-tincture; white oils; occasional pills (for ladies); digestive-syrup; gout-mixture; Lincolnshire bouquet; Jubilee sauce; antiseptic curative ointment; depurative saline; plate-powder (non-mercurial); hair-restorer; stomach-corrector; nursery lotion; mist. gonorrhœa. Tom Brooks, Chemist, Hornsey, London, N.

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Two Stokes' cash-tills, 35*s.* each. 11 Snow Hill, Hanley, Staffs.

One gross 8-oz. white glass, hand-made, round bottles, punted bottoms; free, on rail, 21*s.* Maish, Chemist, Bristol.

Label-chest, Maw's fig. 34: pill-machine, 5-grain; marble slab; 18 black store-pots, gilt-glass covers, fig. 89, gold labels; 24 large, 45 small drawers (unnested), glass knobs, gold labels; shop-rounds, syrups, &c.; cheap. Wilkerson, Rushden, Northamptonshire.

Drugs and Chemicals.

Two cwt. finest honey, new; sample forwarded. Wm. Townsley, jun., Foggathorpe, *viâ* Howden.

Educational.

Attfield's "Chemistry," latest edition, never been used; what offer? Address, "Chemistry," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

Real bargains.—Practical standard works for sale, post free:—Dr. Tanner's "Practice of Medicine, 2 vols., 31*s.* 6*d.*, for 15*s.*; Fournier's "Syphilis and Marriage," 12*s.* 6*d.* new, for 7*s.* 6*d.*; "Esoteric Anthropology (Mysteries of Man)," new, 50 illustrations, 5*s.*; Hargreave's "Manual," new, for 4*s.*; Brand and Taylor's "Chemistry," illustrated, 12*s.* 6*d.*, for 7*s.* 6*d.*; Dr. Royle's and Headland's "Materia Medica," 12*s.* 6*d.*, illustrated, for 7*s.* 6*d.*; Bentley's "Botany," illustrated, 12*s.* 6*d.*, for 7*s.* 6*d.*: "Diseases of Infancy and Childhood" Dr. Tanner's, 14*s.*, for 7*s.* 6*d.*, new; Hoblyn's "Medical Dictionary," 12*s.* 6*d.*, for 7*s.* 6*d.*; Ringer's "Handbook of Therapeutics," 10*s.* 6*d.*; Aristotle's works, illustrated, 3*s.*; Pye's "Elementary Baudaging," illustrated, 1*s.* 9*d.* 284/10, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

Watts's "Inorganic Chemistry," Valentin's "Qualitative Analysis," Muter's "Materia Medica," Bentley's "Botany," Lindley's "Botany;" good as new. Best offers to "Chemist," Southgate, Eckington, Derbyshire.

Miscellaneous.

Edge runner, granite, in good condition, suitable for drug-grinding, diameter of bed 26 inches. Madderton, Loughton, Essex.

Gardner's "Rapid" mixer and sifter, 28 lbs.; what offers? 263/26, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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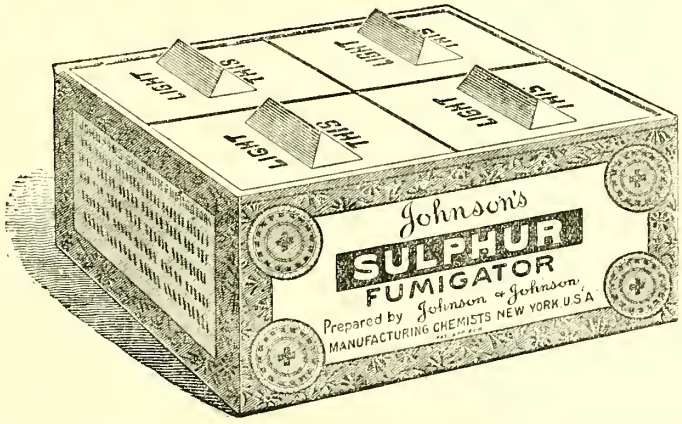
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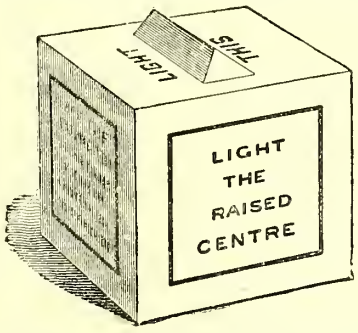


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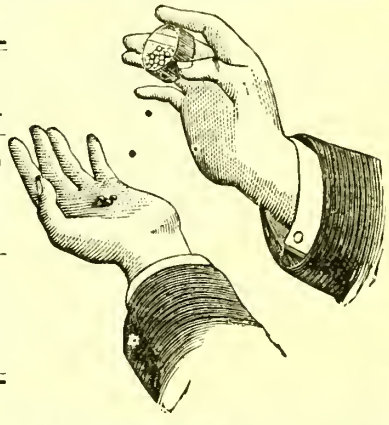
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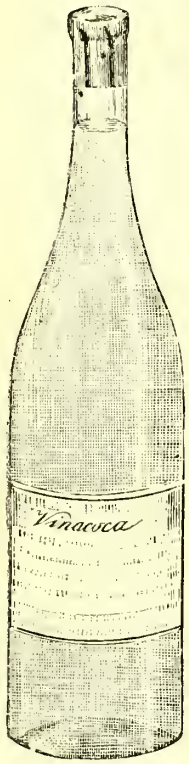
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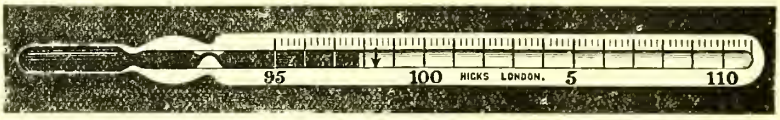
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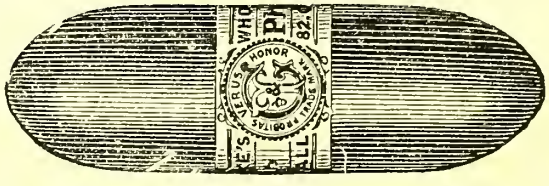
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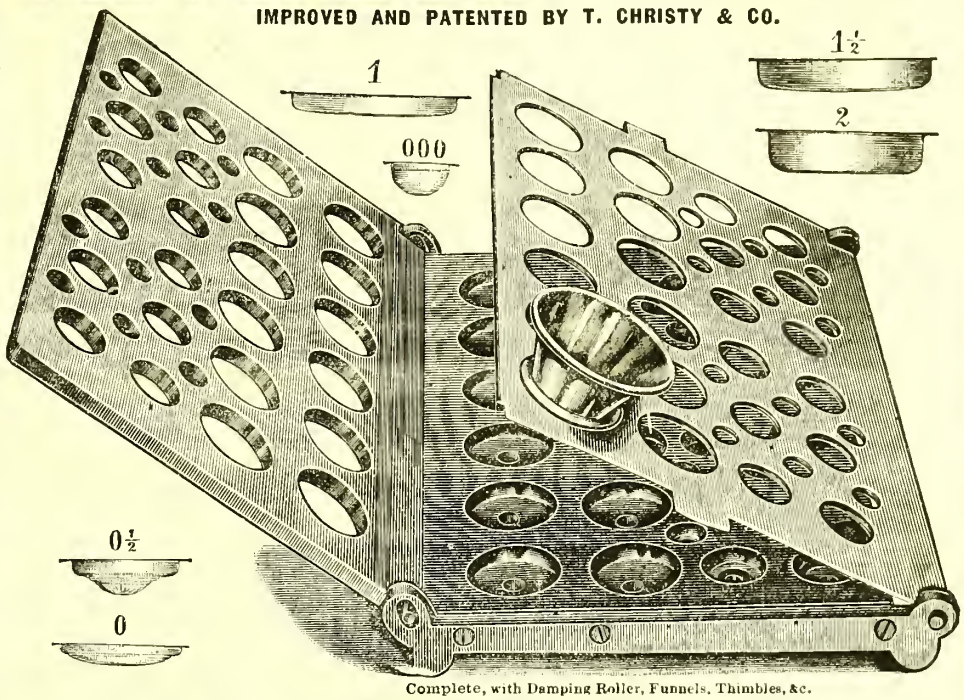
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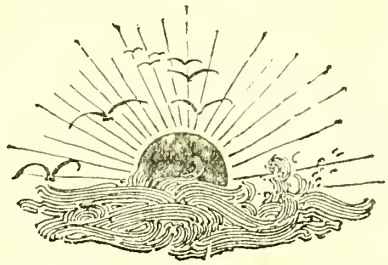
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Peptonising Tablets, with receipts for predigesting foods.

Glycerole, Powder, or Scale.

PANCREATIN

Formulæ free for Liq. Pancreaticus, Peptonised Emulsion of Cod-liver Oil, &c.

ARMOUR'S

PURE PRODUCTS.

There is a "true *ring*" about every one of them.

Pure, and perfectly free from burnt odour or chemical preservatives.

EXTRACT OF BEEF.

Formulæ free for Beef Wine, Beef and Iron Wine, Beef and Iron Wine with Quinine, &c.

A palatable solution of pure peptonised beef in high-class sherry.

Nutrient Wine of Beef Peptone.

May be sold without wine licence.

A permanently bright and highly concentrated solution. Miscible.

GLYCEROLE PEPSIN.

10 min. = 1 grain 2500 test pepsin. Formula for Acid. Gly. Pep., to cost under 1/10 per lb., free.

Laboratories :
Chicago,
U.S.A.

ARMOUR & CO.,
59 TOOLEY ST.,
LONDON, S.E.

Armour's Pepsin has come rapidly to the front, and holds its position firmly because it maintains the highest standard of excellence.

BLYTON, ASTLEY & Co.

T. B. BLYTON, Ph. Chemist. F. A. ASTLEY, Ph. Chemist.

EAGLE LABORATORIES, MANCHESTER.

New Telephone 1,159. Telegrams: "TROCHES MANCHESTER."

Manufacture under direct personal supervision

For Chemists only,

SOLUBLE PEARL-COATED PILLS.

Detail List on application.

Manufacture under direct personal supervision

For Chemists only,

MEDICATED CONFECTIONERY.

Fullest List in the Trade to be shortly issued.

Manufacture under direct personal supervision

For Chemists only,

EFFERVESCING GRANULAR PREPARATIONS.

Private Recipes Compounded.

Manufacture under direct personal supervision

For Chemists only,

FRUIT SYRUPS

From English-grown Fruit.

Manufacture under direct personal supervision

For Chemists only,

FIRST-CLASS GOODS AT FAIR PRICES.

Lists and Samples Free to Qualified Traders.

1893 B No. 2616.

In the High Court of Justice.

[CHANCERY DIVISION.]

Mr. Justice Kekewich.

Mr. Rolt, *Registrar.*
Fo. 135.

Friday the 30th day of June 1893.

Between BLONDEAU et Cie., *Plaintiffs*

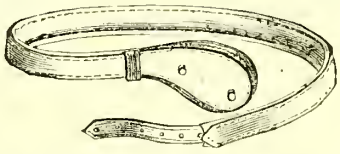
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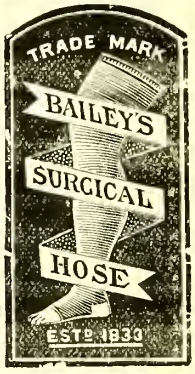
ARTHUR HENRY FERRIDAY, *Defendant.*

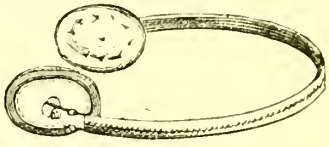
UPON MOTION this day made unto this Court by Counsel for the Plaintiffs and upon hearing Counsel for the Defendant, and the Plaintiffs and the Defendant by their Counsel consenting that this Motion shall be treated as a Motion for Judgment and consenting to this Order, this Court doth Order that the Defendant ARTHUR HENRY FERRIDAY his Workmen Servants and Agents be perpetually restrained from supplying Vinolia Soap or other preparations of the Plaintiffs to any wholesale or retail house or houses notified by the Plaintiffs to the Defendant or to any such house or houses known by the Defendant to be selling the said Vinolia Soap or preparations below certain minimum prices set forth in a Letter of Agreement dated the 14th December 1892 addressed to the Plaintiffs and signed by the Defendant. And it is ordered that the Defendant ARTHUR HENRY FERRIDAY do pay to the Plaintiffs BLONDEAU et Cie. their costs of this Action, such costs to be taxed by the Taxing-Master.

BAILEY'S TRUSSES are the Best for shape & quality.

AWARDED FIRST PRIZE (SILVER MEDAL) IN OPEN COMPETITION BY THE CUTLERS' COMPANY.

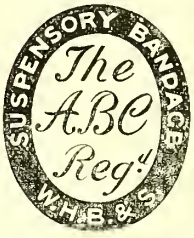






BAILEY'S ELASTIC STOCKINGS, &c.

WARRANTED TO STAND ANY CLIMATE.



BAILEY'S "ABC" SUSPENSORY BANDAGES

TESTIMONIAL.

The Foregate, WORCESTER.

GENTLEMEN—Please repeat our last order for "Suspensory Bandages." We think your idea of arranging the sizes and qualities by the use of numbers and letters a very excellent one, as it is most convenient to the Chemist in ordering, and we find our customers make use of your method. It brings us many repeat orders. Yours faithfully, ANDERSON & VIRGO.

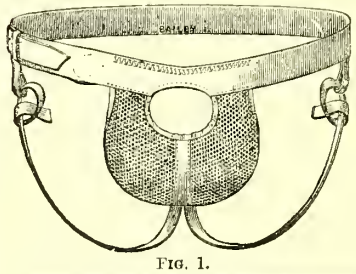


Fig. 1.

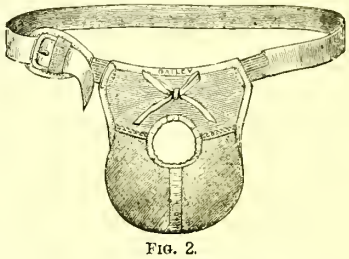


Fig. 2.

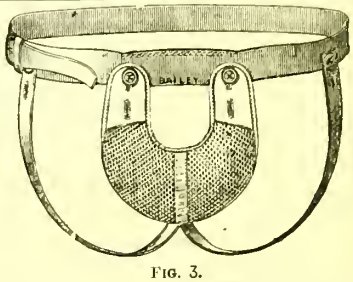


Fig. 3.

No trouble in fitting.
Repeat Orders with certainty and secure custom.
Great saving of time. No unpacking for comparison.

No soiling.
Each one in separate box.
Box and Suspensory both marked with number corresponding to our list and letter indicating size of bag.

ORNAMENTAL CASE—containing 2 Dozen Suspensories, assorted. Price 30/. Usual Discount.
Special Quotation for One Gross. All Assorted. A small, B medium, and C large bags.

WHOLESALE MANUFACTURERS AND EXPORTERS.

SHIPPING TERMS AND PRICES ON APPLICATION TO

W. H. BAILEY & SON,

38 OXFORD STREET, LONDON, W.

SYR. HYPOPHOS. CO., FELLOWS

CONTAINS THE ESSENTIAL ELEMENTS of the Animal Organisation—Potash and Lime;

THE OXIDISING AGENTS—Iron and Manganese;

THE TONICS—Quinine and Strychnine;

AND THE VITALISING CONSTITUENT—Phosphorus: the whole combined in the form of a Syrup with a **SLIGHTLY ALKALINE REACTION.**

IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS, and it possesses the important properties of being pleasant to the taste, easily borne by the stomach, and harmless under prolonged use.

IT HAS GAINED A WIDE REPUTATION, particularly in the treatment of Pulmonary Tuberculosis, Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with much success in various nervous and debilitating diseases.

ITS CURATIVE POWER is largely attributable to its stimulant, tonic, and nutritive properties, by means of which the energy of the system is recruited.

ITS ACTION IS PROMPT; it stimulates the appetite and the digestion, it promotes assimilation, and it enters directly into the circulation with the food products.

The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; *hence the preparation is of great value in the treatment of mental and nervous affections.* From the fact also that it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in a wide range of diseases.

NOTICE—CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, FINDS THAT NO TWO OF THEM ARE IDENTICAL, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION, and in the medicinal effects.

As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-): the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

WHOLESALE AGENTS—

BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.

TABLOIDS!

(OF COMPRESSED DRUGS). B., W. & CO.

FOR INTERNAL USE.—In these are secured perfect accuracy of dose, purity of material employed, solubility, and perfect disintegration. They are, moreover, quite palatable, and, on account of their portability and reliable dosage, present many advantages to the physician, nurse, and patient; for by means of them medicines may be regularly and systematically administered, even when patients are travelling or attending to business or professional duties.

FOR OPHTHALMIC USE.—This is a new departure in our "Tabloid" section, and is intended to supply the majority of those agents commonly used in the treatment of the diseases and affections of the eye, in a convenient and portable form. We are assured that the Ophthalmic "Tabloids" will be heartily welcomed on account of the many advantages which obviously they present. We have already issued the following:—

A	Atropia Sulph. ...	1-200 gr.	*J	Hydrarg. Perchlor....	1-1000 gr.
B	Atropia Sulph. ...	1-200 gr.	**K**	Pilocarpine	1-400 gr.
	Cocaine	1-200 gr.	**M**	Pilocarpine	1-500 gr.
C	Cocaine	1-20 gr.		Cocaine...	1-200 gr.
F	Eserine Salicyl. ...	1-600 gr.	**N**	Homatrop. Hydroch.	1-600 gr.
G	Eserine Salicyl. ...	1-500 gr.	**O**	Homatrop. Hydroch.	1-240 gr.
	Cocaine	1-200 gr.		Cocaine...	1-24 gr.
H	Homatrop. Hydroch.	1-400 gr.	*P	Boracic Acid... ...	6 grs.

* Perfumed with Otto of Rose.

FOR HYPODERMIC USE.—The reputation already attained by our Hypodermic "Tabloids" makes it unnecessary to speak of them in this place, further than to point out in connection with them that we have just made the following additions:—Hyoscine Hydrobromate 1-10 gr., Nitro-glycerine 1-250 gr., and Strychnia Nitrate 1-15 gr. The prices of the Hypodermic class entirely have been reduced from 12/- to 8/- per dozen.

FOR PHOTOGRAPHIC USE.—The success which has attended these "Tabloids" proves that they save time, save material, save disappointment. Photographic "Tabloids" are indispensable to the amateur, who will find them accurate, energetic, lasting, and reliable.

BURROUGHS, WELLCOME & CO., MANUFACTURING CHEMISTS.

LONDON— Snow Hill Buildings | NEW YORK 82 & 84 Fulton Street | MELBOURNE— 456 Collins Street West | BRUSSELS— 80 Montagne de la Cour | PARIS— Pharmacie Centrale de France

KEPLER ESSENCE OF MALT.

In dietetics for the invalid the Kepler Essence of Malt has already won its way to an enviable position, and has distinctly shown its superiority over all so-called nourishing Stouts and Ales as a food beverage. Its superior diastasic property, larger percentage of tissue-forming material and soluble phosphates, its palatable character, and its freedom from intoxicating qualities, raise it at once far above the ordinary level of the very best and most carefully-prepared fermented malt liquors.



We are assured by competent judges, who have tried it in their clinics, that two fluid ounces of the Kepler Malt Essence is equal in therapeutic value to a pint of the best Stout or Ale. This is a most important fact to be kept well in mind when recommending or prescribing suitable diet for the dyspeptic, the ill-nourished, the sick, or the convalescent. The Kepler Malt Essence does not ferment, and keeps well. It makes a pleasant beverage when mixed with Aerated Water and Milk.

Supplied in Champagne Pints and Quarts at 14/– *and* 24/– *per doz. Retail,* 1/6 *and* 2/6.

SAMPLES SENT TO MEDICAL MEN AND PHARMACISTS FREE ON REQUEST.

BURROUGHS, WELLCOME & CO., MANUFACTURING CHEMISTS

LONDON— Snow Hill Buildings. | NEW YORK— 82 & 84 Fulton Street. | MELBOURNE— 456 Collins Street West. | BRUSSELS— 80 Montagne-de-la-Cour. | PARIS—Pharmacie Centrale de France.

THE KEPLER SOLUTION

OF

COD LIVER OIL IN KEPLER MALT EXTRACT.

Kepler Solution is superior to the very best and most carefully prepared emulsion in that it does not derange the digestive process.

It is eminently palatable and easily digested, and assists the digestion of other food material.

It is an ideal food in Scrofula, Rickets, and Phthisis.

It neither causes eructations nor excites nausea.



It is readily taken by the most fastidious — especially children & invalids, who are utterly unable either to take or retain the plain Cod Liver Oil itself, or in the form of emulsion.

"THE KEPLER SOLUTION IS AN IDEAL FORM FOR THE ADMINISTRATION OF FAT."

(British Medical Journal.)

"The more finely an oil is subdivided the more do we enjoy it, and the more readily is it digested" (Brunton). But it should not be subdivided with chemicals instead of foods when a natural food will answer so much better. On this score we have pharmacologically solved the problem, for in the Kepler Solution the oil is molecularly incorporated with a digestive Malt Extract, and therefore an examination of it with the very highest microscopic power demonstrates an absence of oil globules. The Kepler Solution may be comfortably taken all the year round, and is invariably beneficial in all cases showing rapid tissue waste.

Supplied in ¾-lb. and 1½-lb. Bottles at 20/- and 36/- per doz.; Retail 2/6 and 4/.

BURROUGHS, WELLCOME & CO., MANUFACTURING CHEMISTS.

LONDON— Snow Hill Buildings. | NEW YORK— 82 & 84 Fulton Street. | MELBOURNE 456 Collins St. West. | PARIS—Pharmacie Centrale de France. | BRUSSELS— 80 Montagne de la Cour.

THE KEPLER EXTRACT OF MALT.

The very important part which Malt Extract fills in Medicine makes it highly desirable to have some clear idea as to what are the essential points to be observed in its manufacture.

(1) It should be prepared from the very best winter barley, and contain all the nutritive principles of the grain. This is imperative.

(2) It should be evaporated in vacuo, and not in an open pan. This is indispensable; otherwise instead of being pleasant the malt will possess a burnt or tarry taste and smell.

(3) No substitution should be allowed—as of other cereals for a part of the barley, or glucose for a part of maltose.

(4) There must be absolute purity and an absence of all adulterants.

(5) It should be rich in diastase—the digestive ferment which converts starch into sugar.

(6) It should be of substantial consistence, or it will be liable to decompose.

(7) If the heat in the process of manufacturing be raised too high the diastase will be destroyed.

(8) No fermentation whatever should take place, or the maltose will be partially converted into alcohol, and carbonic acid and a species of beer formed.

All the above points are secured in the Kepler process.

The
OPINIONS
of the
MEDICAL AND SCIENTIFIC PRESS
in regard to it:—

The Lancet reports:—
"The Kepler Extract of Malt is the best."

The Medical Times and Gazette:
"By far the best."

The Medical Press:
"Delicious to the taste."



The Medical Record:
"It is undoubtedly the best."

M. D. says:
"It has the finest flavour of any."

The Pharmacological Record:
"The Kepler Extract of Malt asserts its superiority when all the factors are taken into consideration."

The British Medical Journal:
"We can recommend the Kepler Malt Extract."

In making a comparative examination of Malt Extract, regard should be had particularly to the following:—

Colour and Consistency.
Odour and Flavour.
Percentage of Water.
Acidity and Iodine absorption.
Percentage of Diastase.
Presence of Saccharine and Inorganic Constituents.

The Kepler Extract was only very recently subjected to a very severe examination in which all the above factors were kept steadily in view, with the result that the examiners declared that the high qualities shown by the Kepler Extract should be adopted as a real and an official standard.

Our improved process enables us to produce the Kepler Malt Extract of uniform consistency and reliable character, and is a distinct advance in the method of preparing this valuable digestive and nutrient, and may be relied upon to preserve to the fullest the Albuminoids, the Soluble Phosphates, Maltose, Dextrine, and the important amylolytic ferment—Diastase—without which Malt preparations are useless.

Supplied in ¾ and 1½ lb. Bottles at 20/- and 36/- per doz. Retail, 2/6 and 4/-.

BURROUGHS, WELLCOME & CO., MANUFACTURING CHEMISTS.

LONDON—Snow Hill Buildings. | NEW YORK—82 & 84 Fulton Street. | MELBOURNE—456 Collins St. West. | PARIS—Pharmacie Centrale de France | BRUSSELS—80 Montagne-de-la-Cour.

DIGESTIVE PREPARATIONS

(FAIRCHILD).

ZYMINE (Ext. Pancreatis—Fairchild) is a dry powder, and contains all the ferments (Enzymes) of the pancreas in a very active form. Trypsin—which converts albumens (of Milk, Beef, Fish, Blood, &c.) into Peptone in either slightly acid media; Amylopsin—a form of diastase which converts starches into dextrins and sugar; Steapsin—the Emulsive ferment necessary to the assimilation of fats and oils; and, lastly, the Milk-curdling or Rennet ferment.



ZYMINE PEPTONISING POWDERS, which are composed of Zymine and a proper proportion of Sodium Bicarbonate, are supplied in boxes of 12 tubes each, the contents of each tube being sufficient for the rapid and thorough peptonisation of various forms of invalids' diet—milk, gruel, jellies, custards, &c. Full directions are given with each box, so that the most inexperienced attendant may easily carry out the process.



ZYMINE TABLOIDS, each containing 3 grs. of the pure Zymine, will be found a highly convenient form for the regular administration while attending daily duties.

COMPOUND ZYMINE TABLOIDS present Bismuth Subnitrate, so highly esteemed in allaying irritability of the alimentary tract, in combination with Pancreatic Extract and Ipecac., the latter acting as a stimulant of the intestinal digestion.

ZYMINISED SUPPOSITORIES (Milk and Meat) are exceedingly effective when it is necessary or advisable to rest the stomach function. They are readily assimilated, and cause no irritation in the rectum.

THE ABOVE ARE SUPPLIED TO THE TRADE AS FOLLOW:—

	Per doz.		Per doz.
Zymine (Ext. Pancreatis) ½-oz. bottles	20/0	Zymine Comp. Tabloids 25 in bottle	18/0
„ „ „ „ 1-oz. „	60/0	„ „ „ 100 „	48/0
Zymine Peptonising Powders, 1 doz. Tubes in box	14/0	Trypsin (Pure), 1-drachm bottles	54/0
Zymine Tabloids, 25 in bottle	18/0	Meat and Milk Suppositories (*see Zyminised Meat and Milk Suppositories*), 12 in a box	22/0
„ „ 100 „	48/0		

BURROUGHS, WELLCOME & CO., MANUFACTURING CHEMISTS,

LONDON— Snow Hill Buildings. NEW YORK— 82 & 84 Fulton Street. MELBOURNE— 456 Collins Street West. BRUSSELS— 80 Montagne de la-Cour. PARIS—Pharmacie Centrale de France.

"SOLOIDS."

Under this designation we have classed all those forms of Compressed Drugs of a highly toxic and dangerous nature, with the object of avoiding confusion with Tabloids intended to be taken per os. The three "Soloids" referred to below are all intended for analogous purposes — the instant production of strongly antiseptic solutions.

"SOLOIDS" OF IODIC HYDRARG.

This combination of the iodides of Mercury and Potassium (Mercuric Potassio-Mercuric Iodide) is said to possess twice the bactericidal strength of Mercuric Chloride, that it is not nearly so toxic, does not precipitate Albumen, and not liable to cause irritation. Two "Soloids" dissolved in a pint of water will make a solution (1:4,000 approximately) sufficiently effective to produce complete asepsis of the hand or of instruments after operation, or for use in obstetric practice.

"SOLOIDS" OF HYD. PERCHLORIDE.

May be used conveniently in surgical and gynæcological work for the preparation of solutions for irrigating wounds or the uterine organs. One "Soloid" dissolved in a pint of water will give a solution of which the strength will be 1:1,000. These "Soloids" are characteristically coloured and shaped, so as to render mistakes almost impossible.

THE L. G. B. "SOLOIDS"

Have been prepared at the kind suggestion of Dr. William Murrell; each "Soloid" on being dissolved in a quart of water makes a solution of the strength and character recommended by the Local Government Board in 1892. These L. G. B. "Soloids" are highly convenient and rapidly soluble in ordinary well-water, and their peculiar but perfectly harmless coloration and terebinthine odour are safeguards against poisoning. White fabrics soaked in the "Soloid" solution are stained a very light blue, but this colour is nearly discharged by rinsing in cold water, so that no damage is caused to linen, &c., with which it may come in contact. These L. G. B. "Soloids" will be found extremely useful for disinfecting purposes in cases of epidemics.

BURROUGHS, WELLCOME & CO., MANUFACTURING CHEMISTS.

LONDON— Snow Hill Buildings. | NEW YORK— 82 & 84 Fulton Street. | MELBOURNE— 456 Collins Street West. | PARIS—Pharmacie Centrale de France. | BRUSSELS— 80 Montagne-de-la-Cour.

"TABLOIDS"

Are more profitable to dispense than pills or powders made by hand, for the following reasons:—

1. They can be quickly dispensed by affixing the doctor's directions to the package in place of or in addition to the regular label.
2. Expenses of delivery of the medicine can be avoided, as prescriptions for "Tabloids" can be filled in a few minutes.
3. "Tabloids" are supplied by us at such very reasonable prices that they pay an excellent profit when dispensed by the dozen at the ordinary prices.
4. "Tabloids" are so agreeable and pleasant a form of medicine that patients do not hesitate to take the full quantity prescribed, and to repeat the prescription if so directed, instead of throwing the medicine away as some are liable to do if it is unsightly or disagreeable.
5. "Tabloids" are much more easily swallowed than ordinary pills, and are usually much smaller for the same quantity of medicament.

All pharmacists who have laid in a good stock of "Tabloids," and informed their local medical men of the same, have found the venture most profitable in every way.

BURROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.

LATEST REMEDIES IN PHARMACY AND THERAPEUTICS.

STANDARDISED DRUGS AND PREPARATIONS.

HEARON, SQUIRE & FRANCIS

WHOLESALE AND EXPORT DRUGGISTS.

Telegraphic Address—"FRANCIS LONDON."

CONCENTRATED LIQUORS
For Syrups.

CONCENTRATED WATERS
1 to 40.



TRADE MARK.

GRANULAR EFFERVESCENT SALTS.

EXTRACTS,
Liquid, Solid, and in Powder.

PHARMACEUTICAL PREPARATIONS FROM SELECTED DRUGS.

INFANTS' FOOD MALTED. In Bulk, or in Tins with Plain Labels.

EXTRACT OF MALT IN VACUO.

LIQUID. Keeps perfectly, and possesses the characteristic flavour of Malt. SEMI-SOLID.

NEUTRAL and CLOUDY. **SYR. HYPOPHOS. CO.** NEUTRAL and BRIGHT.

38 SOUTHWARK STREET, S.E.

HEWLETT'S

LIQUOR SANTAL FLAV. C. BUCHU ET CUBEBÆ.

The Original Preparation.

Price (in England) 10/6 per lb. packed (for Dispensing only) in 10-oz., 22-oz., 40-oz. & 90-oz. Bottles.

HEWLETT'S

MIST. PEPSINÆ CO. C. BISMUTHO.

Price (in England) 10/6 per lb. packed (for Dispensing only) in 10-oz., 22-oz., 40-oz. & 90-oz. Bottles.

PLEASE NOTE THAT ALL OUR SPECIALITIES BEAR OUR NAME AND TRADE MARK.



WE regret to have to caution the trade against the numerous imitations of our ORIGINAL PREPARATIONS, which, whilst closely copying the name, utterly fail to approach our standard of excellence and only give rise to disappointment and failure to the Prescriber.

C. J. Hewlett & Son's Specialities.

EXT. CASCARÆ LIQ. SOLUBLE.
EXT. CINCHONÆ LIQ. SOLUBLE.
LIQUOR ERGOTÆ PURIF.
LIQUOR EASTONI.
LIQUOR OPII SEDATIV.
MIST. TUSSI RUB CONC.
ANTISEPTIC CREAM.
ANTISEPTIC PELLETS.
SOL. OPII PURIF.
PHOSPHORISED EMULSION.
LIQUOR FERRI IODID.
SYR. HYDROBROM CO.

C. J. HEWLETT & SON,

Wholesale & Export Druggists and Manufacturing Chemists,

40, 41 & 42, CHARLOTTE STREET, LONDON, E.C.



TWO PRIZE MEDALS
International
Calcutta Exhibition,
1883.



GOLD MEDAL
Universal Exhibition
London,
1884.



We are daily shipping large quantities of

TINCTURES,

Fluid Extracts, Liniments,

MEDICINAL SPIRITS,

CONCENTRATED LIQUORS, INFUSIONS, Etc.,

Prepared in our own Laboratories from English Grain Spirit,

IN BOND, FREE OF SPIRIT DUTY.

Colonial Buyers would do well to secure our

SPECIAL NEW TERMS.

Our Illustrated Wholesale & Export Price Current sent, post free, to any part of the world, on receipt of business card.

"British & Colonial Druggist."

March 30, 1893.

"Every arrangement has been adopted to facilitate the rapid execution of indents, and Colonial buyers can therefore rely upon their orders being attended to with promptitude and despatch. The extraordinary growth of the Export Tincture trade during the last few years shows that this feature of Messrs. HEWLETT & SON'S business is appreciated. We understand that the special terms which Messrs. HEWLETT are offering their Export clients have led to this large and rapid extension in their business."

"Chemist & Druggist."

January 28, 1893.

"Our representative saw evidence in the Tincture book, and in the rows of Tincture barrels and jars, of the development in Export Tincture trade. Glancing over the book, our representative saw a familiar name, that of a Colonial chemist, over several pages, the entries representing all sorts of Tinctures, Fluid Extracts, etc., altogether about 90 gallons of stuff. That order was received on a Friday and despatched by the following Friday's steamer. Exquisitely designed labels are used, from which we gather that *standardisation* is a leading characteristic of the preparations."

C. J. HEWLETT & SON,

(ESTABLISHED 1832.)

WHOLESALE & EXPORT DRUGGISTS,

40, 41 & 42, CHARLOTTE STREET,

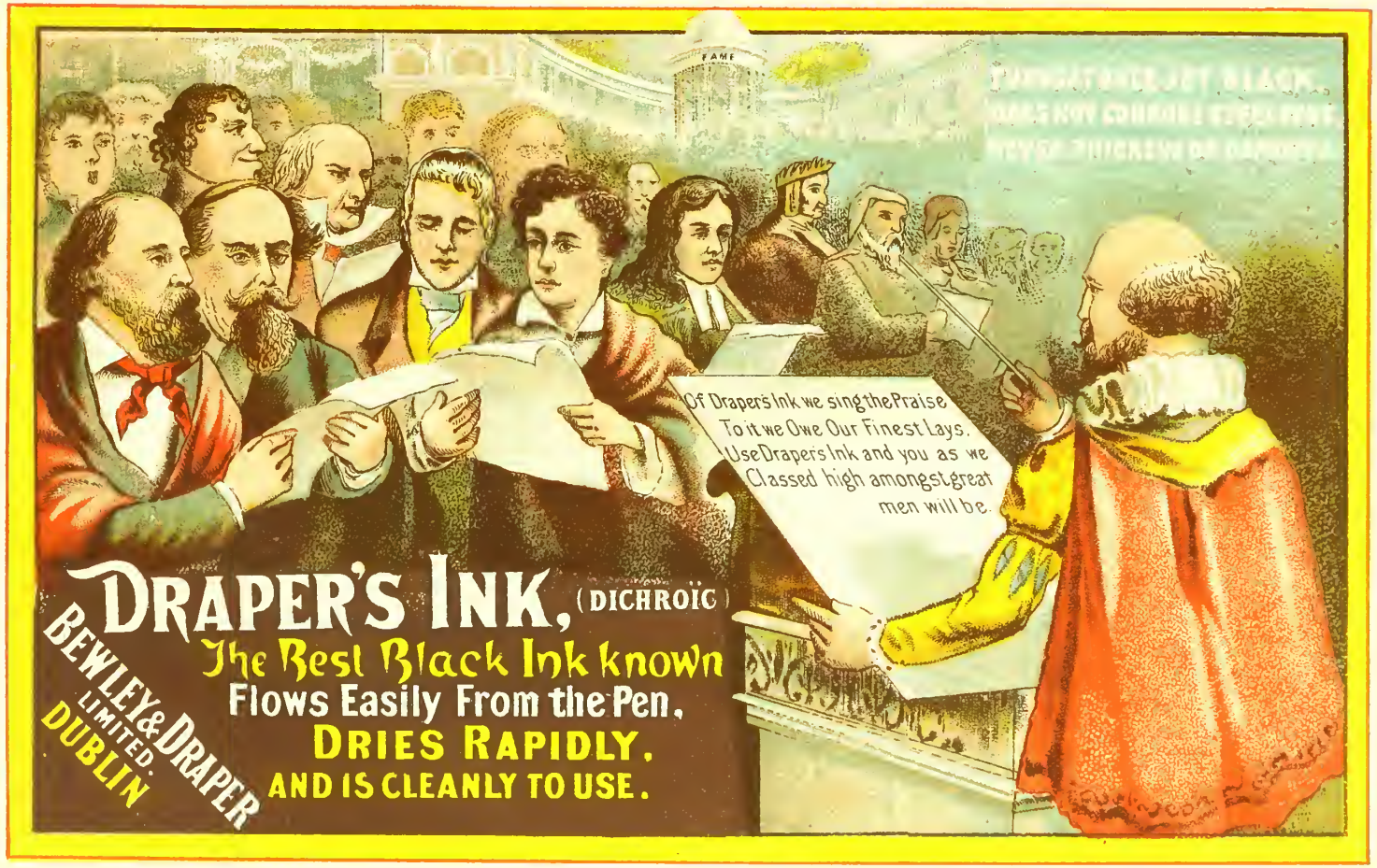
LONDON, E.C.



FLAVOURING ESSENCES
AND
PERFUMES,
IN BOND.



P.T.O.


FAME
Of Draper's Ink we sing the Praise
To it we Owe Our Finest Lays.
Use Draper's Ink and you as we
Classed high amongst great
men will be.
DRAPER'S INK, (DICHROIC)
The Best Black Ink known
Flows Easily From the Pen,
DRIES RAPIDLY,
AND IS CLEANLY TO USE.
BEWLEY & DRAPER LIMITED. DUBLIN

Adopted by all the principal Banks, Railway Companies and Public Offices, Her Majesty's Customs, and Trinity College; also supplied to the "Alert" and "Discovery" during the last Arctic Expedition.

SELECTIONS FROM TESTIMONIALS.

DRAPER'S DICHROÏC INK.—The difficulty of obtaining an Ink which will really answer the purpose for which it is intended, without accomplishing a number of other results, both unforeseen and undesired, is proved by the number of applications with which we are honoured for a recipe for a "really good Black Ink." We have made many attempts, but we confess that we do not know how to make "a really good Black Ink." . . We can prepare an infinite variety of Inks, but a model Ink like DRAPER'S DICHROÏC is beyond our power. Seriously, this Ink is about the best which can be bought, and whether for their own use, or for sale, our readers will do well to take our recommendation, and keep it in stock.—*Chemist and Druggist.*

CLIFTON, *January 9th*, 1874.

SIR,—I have now used your Ink for several years, and, though formerly I was constantly worried by the badness of Ink (and I have tried many of those reputed to be the best) in writing my prescriptions, I now find it quite a pleasure to write. Detailed eulogy is superfluous. I can only say the DICHROÏC INK is perfect.—Yours truly,

CHARLES R. MAXWELL, Physician.

Extract from the Letter of an Indian Correspondent.

MOOLTAN, *June 17th*, 1872.

"Tell DRAPER that his Ink is splendid here. When it dries up it bears watering, which no other Ink will do."

From the Rev. C. H. SPURGEON.

Thanks are due to a friend who has sent us a supply of DRAPER'S DICHROÏC INK; it is, in our judgment, the very best for rapid writing. . . . . Even with the Dichroïc Ink, we are occasionally unable to write a favourable review.—*The Sword and the Trowel.*

We are aware that many persons can write with a skewer upon anything in the shape of paper. They are to be envied. We are not of the happy number. We require a good pen and good paper, and, though last, not least, good ink. We are not now going to say which pens or which paper we prefer, but for the past twelve months we have used no other Ink than DRAPER'S DICHROÏC. It is manufactured by a firm of Chemists in Dublin, and is not so well known in the stationery trade as it deserves to be.—*The Stationery Trades' Journal*, March, 1880.

The *liquor sanguinis* of literature—ink—has never been as pure and agreeable fluid as it ought to be, considering how necessary its cordial co-operation is to pleasant writing and profitable reading. Can we not easily imagine that a sudden infusion of gall into the placidity of a leading article may result from the passing annoyance of a smudge in the ink-bottle! And how hard it must be to *do* jokes for the comic journals when your ink will insist on either issuing from your pen in horrible blobs, or else leaving no mark at all. At last all this is changed. No longer is the leader-writer to be "condemned rash rancour to instil," in having to pen his phrases in uncompliant mud. A new ink, called "Dichroïc" has just been discovered and brought out by Messrs. BEWLEY AND DRAPER, of Dublin. The "Dichroïc Ink" is a perfect solution, and therefore leaves no sediment. It is free from acid and does not corrode the pen. It runs freely and easily, and without greasiness, from the pen's point. It becomes black in a few seconds, sinks into the paper so rapidly as seldom to require blotting-paper, and is more indelible than ordinary ink.—*Medical Press and Circular.*

IMPORTANT TO PHONOGRAPHERS.

EXTRACT FROM A LETTER OF MR. ISAAC PITMAN.

I have been using your "Dichroïc Ink" *for the last week, have written much with it, and like it exceedingly. It is extremely fluid, does not thicken on the pen and put it out of order, and dries very quickly.*

SIFTING & MIXING MACHINERY DEPARTMENT.

GARDNER'S PATENT "RAPID" SIFTER & MIXER FOR SIMULTANEOUSLY REDUCING, SIFTING & MIXING ALL KINDS OF DRY & LUMPY POWDERS.

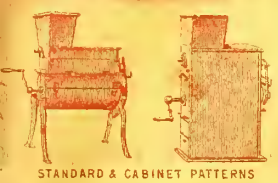
WILLIAM GARDNER,

Cable & Telegraphic Address, "GARDNER, GLOUCESTER."

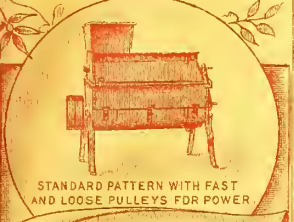
PATENTEE & ENGINEER.

MILL FURNISHING WORKS.

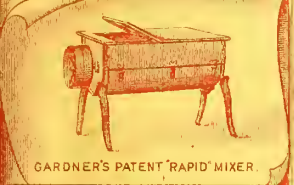
SOUTHGATE STREET, GLOUCESTER, ENGLAND.



STANDARD & CABINET PATTERNS FOR HAND USE



STANDARD PATTERN WITH FAST AND LOOSE PULLEYS FOR POWER



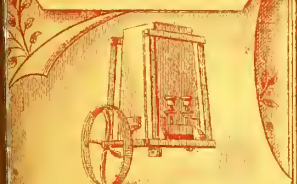
GARDNER'S PATENT "RAPID" MIXER.



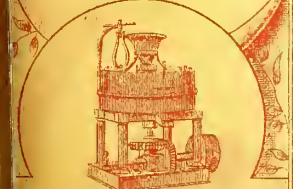
GARDNER'S PATENT "RAPID" SIFTER.



GARDNER'S CENTRIFUGAL DRESSING MACHINE.



GARDNERS "EUREKA" FEEDER



STONE GRINDING MILL.

To

July 29th. 1893.

MIXERS of all Classes of Dry Powders

in every part of the World.

MY PATENT

"RAPID" SIFTERS & MIXERS

ARE NOW LARGELY USED BY

MANUFACTURING CHEMISTS AND DRUGGISTS,
Grocers and Coffee Merchants,
Cocoa and Confectionery Manufacturers,
Sugar and Salt Merchants, etc.,
Plaster and Cement Manufacturers,
Paint and Color Makers,
Sheep Dip Manufacturers,
Cattle and Poultry Food Makers,
Flour Dealers and Blenders, etc.

ALSO FOR MAKERS OF

FRUIT SALTS AND SEIDLITZ POWDERS,
Baking, Egg, and Custard Powders,
Sherbert and Kali,
Self-raising Flour,
Infants' Foods, Disinfectants,
Citrate of Magnesia,
Condiments and Pig Powders,
Spices, Perfumery, and any and every kind of Dry Powder Sifting and Blending.

SEND FOR ILLUSTRATED CATALOGUE & PRICE LIST

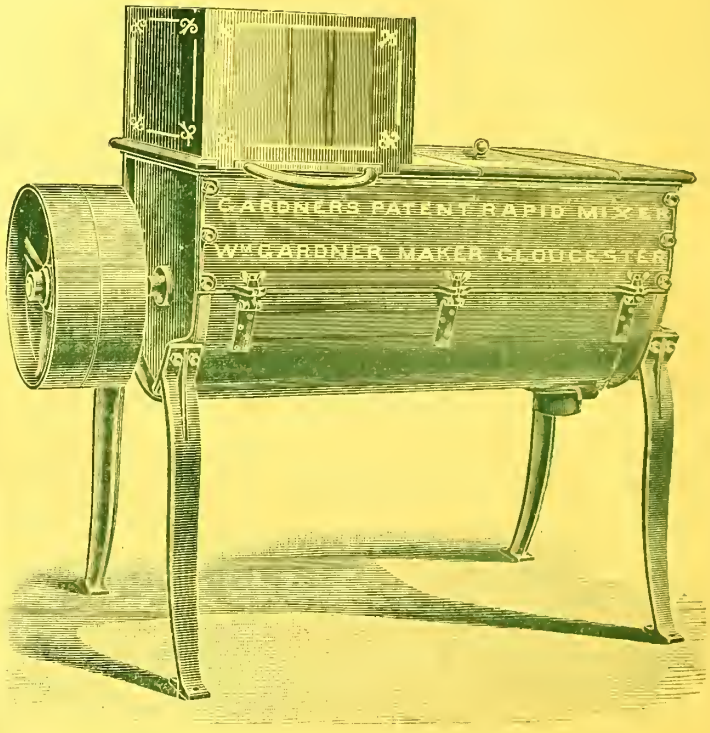
All information supplied on stating requirements.

FURTHER ILLUSTRATIONS OF

Gardner's Patent "Rapid" Sifters & Mixers



Will Sift all kinds of Dry Powders and pass over tail spout all foreign matters contained in them.



This shows my Patent "Rapid" Mixer arranged with Hopper and Slides. It speedily gives a perfect blend of any class or colors of desired powders.

Gardner's "Indispensable" Sifter and Mixer



HAS been designed in response to repeated requests of many of my clients for a Cheap and Effective Machine for very small quantities of Powders, and for making up Samples.

The Sieve can be easily removed and a coarser one added in less than **ONE MINUTE.**

Capacity about 7 lbs. . . Price **48/-**
,, ., 14 lbs. ... ,, **70/-**

Every description of Sifting or Mixing Machinery for Dry Powders supplied to deal with large or small quantities. State requirements and particulars will be sent.

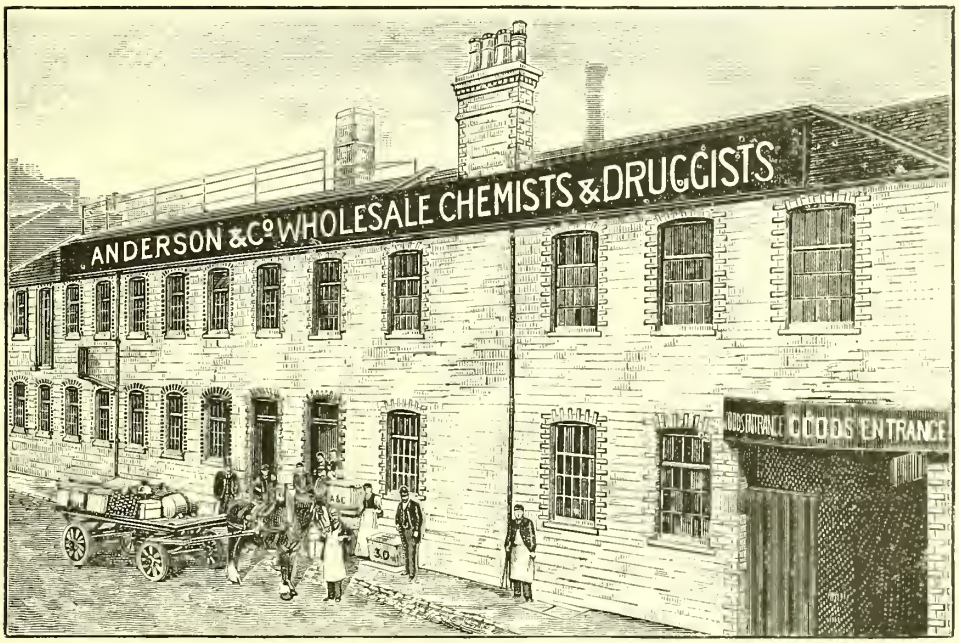
DISINTEGRATORS, STONE GRINDING MILLS, &c. Send for latest Lists.

Telegraphic and Cable Address: GARDNER, GLOUCESTER.

Anderson & Co.,

Manufacturing Chemists, Wholesale and Export Druggists,

EDINBURGH.



ALL OUR

Fluid Extracts, Infusions, and Liquors

EVAPORATED IN VACUO.

Telegrams 'MERCURY,' Edinburgh.

MONTHLY PRICE LIST ON APPLICATION.

A TRIAL ORDER SOLICITED.

PRICES SUBJECT TO MARKET FLUCTUATIONS.

Anderson's Cascara Cordial—Price 1/9 lb.

This preparation contains all the virtues of the bark, but by our method of manufacture and a blending of aromatics its unpalatable bitterness is removed.

Anderson's Chlorodyne Inseparable—Price 3/10 lb.

Free from treacle and similar ingredients (found in the ordinary article), that serve only to disguise the dangerous separation which always ensues. Being soluble in water it is in every way preferable to the preparation hitherto in general use.

Anderson's Chlorodyne Transparent—Price 3/10 lb.

A very superior preparation of this well-known remedy, skilfully prepared, pleasing in appearance, and retaining all the properties of the ordinary chlorodyne, for which it may be substituted. Samples free on application.

Anderson's Concentrated Waters.—Prices as per Monthly List.

One ounce added to forty ounces of distilled water produces a clear medicated water without filtering, equal in every respect to that prepared in accordance with the directions of the British Pharmacopœia, and at a lower cost.

Anderson's Emplastrum Belladonnæ Fluidum—Price 3/10 lb.

Under this title we place upon the market a new form of Belladonna Plaster, which has been found to be a substantial and important improvement upon the ordinary plaster, so prepared that the action of the Belladonna is rendered more certain. It may always be relied upon. It is easily applied (*with a camel hair brush*) and does not produce unbearable irritation.

Anderson's Extract Cascaræ Sagradæ Liquidum—Price 1/4 lb.

Prepared by percolation after the method of the United States Pharmacopœia, evaporated *in vacuo at 120° F.* It is of the same strength but much more active than the Liquid Extract of the British Pharmacopœia. *We make a specialty of this*, and buyers of the preparation are invited to write us as to their requirements.

Anderson's Foam Essence—Price 1/4 lb.

Manufactured on the American principle, for producing a close creamy head to all beverages. One pound is sufficient for 150 gallons of ale, porter, or cider. To Syrups for Lemonade, etc., half an ounce to each gallon.

Anderson's Infusum Rosæ Acid Conc., 1 to 7—Price 2/ lb.

Made by a special process, and is unequalled for colouring power and aroma.

Anderson's Lime Juice Cordial—Quarts, 7/ per doz.

Anderson's Linctus Rosæ—Price 1/4 lb.

A pleasant bright-coloured cough remedy, containing Squills, Ipecac, Tolu, Opium, and Mel Rosæ. Useful as a specialty for children or adults. Dose, one to two drachms.

Anderson's Liquor Rosæ Dulc—Price 1/8

This powerful colouring agent has been found particularly useful for giving an attractive appearance and aroma to an otherwise colourless mixture or gargle.

Anderson's Liquor Santal Flav Co.—Price 4/6 lb.

An excellent combination containing a large percentage of English Sandal-wood Oil, Cubebs, Buchu, etc. It mixes perfectly with water in any proportion, and may be relied upon as a remedy for Gleet, etc.

Anderson's Liquor Sennæ Dulc—Price 1/3 lb.

The percolated liquor for making this essence is reduced *in vacuo*, therefore the Cathartic Acid a glucoside contained in Senna, not being subjected to excessive heat is preserved from oxidation.

Anderson's Mistura Bismuth Aromat. c Pepsin—Price 2/9 lb.

A combination of Bismuth, Nux Vomica, Ether Chloric, Morphia, and Acid Hydrocyanic, mixes freely with water without precipitation, and has been found efficacious in cases of Atonic Dyspepsia and kindred ailments, also in cases of sickness proceeding from a deranged stomach.

Anderson's Syrup Chloral et Potassii Bromid—Price 2/6 lb.

This combination is recommended by Dr W. J. Meikle, who, writing in the *Practitioner*, June 1874, upon the use of Bromide of Potassium, states "that alone it does not appear to be Hypnotic in severe cases of Insomnia with maniacal excitement and restlessness," but that combined with Chloral he has found it of most Hypnotic service in chronic mania, with extreme and intractable insomnia. One drachm contains Chloral Hydrate 10 grs., Potassii Bromid 10 grs. Dose 1 to 3 drachms.

Anderson's Syrup Ferri Phosph. Co.—(*Chemical Food*) Special Quotations

Containing Phosphates of Lime, Iron, Soda, and Potash. Prepared according to *Parrish's* Formula, slightly modified by discarding Hydrochloric Acid and using only *Phosphoric Acid* as the solvent which gives no undue acidity or tendency to precipitate Phosphates.

Anderson's Syrup Hypophosph. Co., "Neutral"—Price 1/ lb.

The remedial powers of this extensively used combination are now well established. The formula being stated on every label enables the Physician to vary the dose. All its constituents are in perfect and permanent solution. We guarantee this syrup to be in exact accordance with the subjoined Formula.

Each fluid drachm contains:—

Calcii Hypophosph, ...	grs. 2	Quininæ, Hypophosph, ...	gr. ¼
Ferri ,, ...	gr. ¾	Sodii, ,, ...	,, 1
Manganesii ,, ...	,, ¼	Strychninæ ,, ...	,, $\frac{1}{200}$
Potassii, ,, ...	,, 1		

Anderson's Syrup Zingib—Price 6d. lb.

A syrup that shonld give entire satisfaction, being quite clear, suitable for dispensing or bottling, as it does not crystallize, cheaper, and is in these respects far superior to the official syrup.

MALT EXTRACT.

MALT EXTRACT.

IN BULK

OR BOTTLED

MALT EXTRACT.

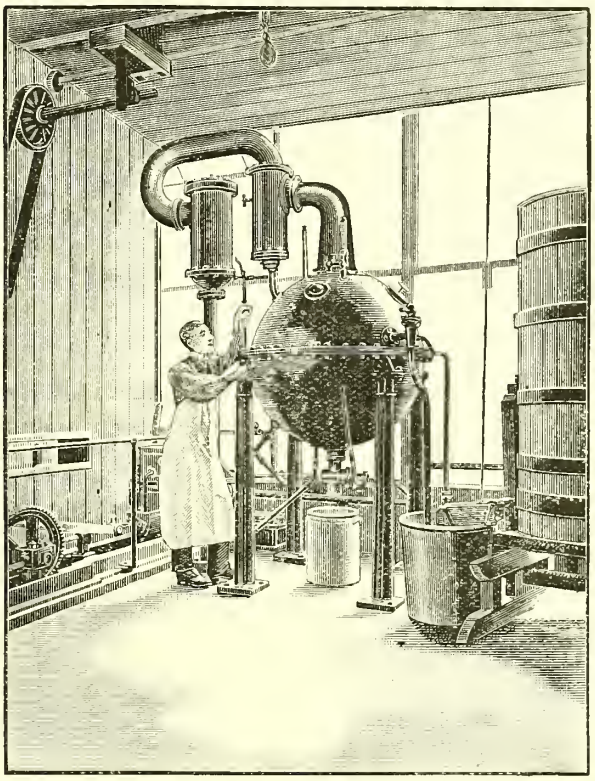
MALT EXTRACT.

Malt Extract.

EXTRACT OF MALT

WITH 25% COD LIVER OIL.

In Bulk OR IN BOTTLES about ¾ lbs " 1½ "



EXTRACT OF MALT LIQUID

In Bulk - - per CWT. " TON.

Extract from "The Chemist & Druggist" (21 11 91)—Trade Notes.

Messrs Anderson & Co., of Murano Place, Edinburgh, send us a sample of extract of malt manufactured by themselves, and supplied in bulk or bottles. The extract is of medium amber colour, of rich diastase flavour and odour, and we found on testing it that it is possessed of full digestive power. A solution of 2 drachms in ½ oz. of water instantly liquified a mucilage of 120 grains of arrowroot in 5 oz. of water at 50° C., and in three minutes the mixture ceased to give the blue iodine starch reaction, only a pale brown colour being produced at the end of four minutes. Apparently, therefore, this extract is carefully made and reliable.

Extract from "The Chemist & Druggist" (21 5 92)—Trade Notes.

Messrs Anderson & Co., of Murano Place, Edinburgh, send us a sample of malt extract and cod-liver oil which they have recently improved. This is a semi fluid preparation, in which the oil is combined with the extract without gummy emulsification, and it does not separate. The taste of the oil is admirably covered without bringing into prominence the taste of the flavouring ingredients. The preparation is supplied in bulk or bottles.

LACTOMALTINE

1/6 Size 10/6 per doz. 2/6 Size 18 per doz.

(ANDERSON & CO.'S REGISTERED)

Highest praise from the Medical Profession.

Malted Milk as supplied to the Royal Hospital for Sick Children, Edinburgh, and the Royal Hospital for Sick Children, Glasgow.

THIS combination of the well-known digestive constituents of Malt with natural infants' food supplies a want which has long been felt by medical men and nurses; indeed, by all who have charge of young people and invalids.

It is attractive, appetizing, and nourishing, and does not distress the weakest stomach; indeed, it is designed expressly to relieve the latter.

To recommend **Lactomaltine** as a substitute for emulsions, and mixtures containing Cod Liver Oil, a comparison only is needed. So far from the distressing objections which are felt by even robust persons (not to speak of delicate invalids) to Cod Liver Oil in all forms, our **Lactomaltine** being regarded as an agreeable delicacy, is taken with pleasure and even avidity, and it is well known that the benefit derived from a food or a remedy (and **Lactomaltine** highly deserves both names) depends very greatly on the willingness with which it is taken. It is highly nourishing and strengthening, and in order to secure absolute purity and accurate proportions of all the constituents of **Lactomaltine**, it is prepared under the personal supervision of an experienced Chemist, in our own Vacuum apparatus, which is absolutely essential, so as to preserve the exceedingly delicate active principles of the Malt.

NOTE THESE OPINIONS.

A. N. M'ALPINE, B.Sc. (Lond.), Consulting Botanist to the Highland and Agricultural Society of Scotland, reports on May 9th, 1892:—"I can also affirm that the practical use of Messrs Anderson's Preparation has been attended with the utmost success."

ANALYTICAL LABORATORY, SURGEONS' HALL,
EDINBURGH, *16th January* 1892.

I have made a careful Chemical Analysis of a sample of **Lactomaltine,** prepared by Messrs Anderson & Co., 12 Murano Place, Edinburgh, and find such to be highly nutritious and rich in digestive properties. It is decidedly palatable when taken alone or in mixture, and besides being strengthening in itself, will prove a valuable aid in the assimilation of ordinary food.

STEVENSON MACADAM, Ph. D., F.R.S.E. etc.
Lecturer on Chemistry.

Mr J. FALCONER KING, F.C.S., F.I.C., City Analyst, Edinburgh, reports:—"That **Lactomaltine** is capable of converting *five times its weight of starch* in about three hours, and is more than a *hundred times stronger* than a sample of malted milk obtained through one of the best pharmaceutical chemists in Edinburgh."

"I find your preparation giving splendid satisfaction to both Medical Men and Customers."—J. S. (*Chemist*).

"The patient to whom I administered it (a child four years old) has been much benefited by its use."—S.E.C. (*L.N.C.P.*)

"I am very glad to say your **Lactomaltine** is giving me wonderful strength."—S. M'C.

"Send the enclosed order for **Lactomaltine** it is a great success."—H.A. (*Chemist*).

TRADE MARK REGISTERED — 'LACTOMALTINE' ANDERSON & CO.

THE

Devil Disintegrator & Bone Grinder

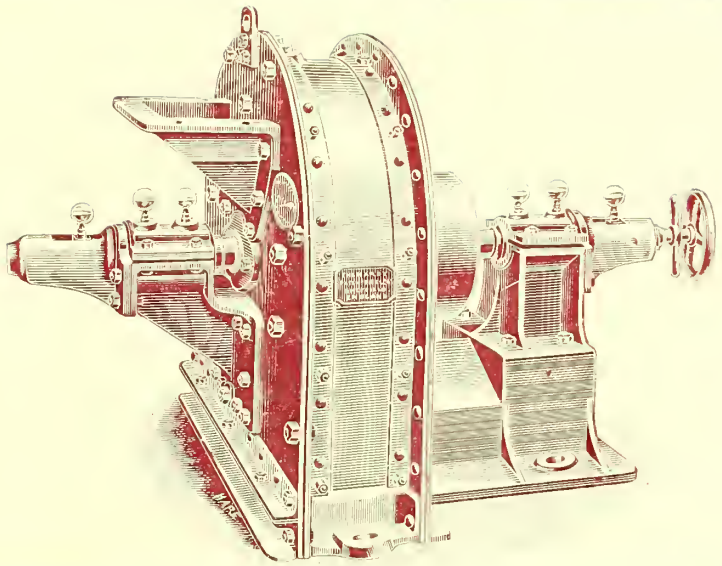
IS THE BEST MACHINE

For GRINDING ALMOST ANY MATERIAL to MODERATELY FINE or COARSE POWDERS, GIVING AT THE SAME TIME A LARGE OUTPUT

The most important competitive trials of Disintegrators ever held took place at the ROYAL AGRICULTURAL SOCIETY OF ENGLAND'S SHOW, held at Plymouth, June, 1890, when the "DEVIL" was awarded as the BEST MACHINE, and was awarded the FIRST PRIZE and the SOCIETY'S MEDAL.

There were Eight Entries for this Competition from the best makers of this class of Machinery.

ANY SIZE MILL



SENT ON APPROVAL

It is Cheap, Simple in Construction, and not liable to get out of repair. The Grinding Rings, which are the only wearing parts, can be replaced by a labourer, without fitting, at slight cost.

Code Word.	No.	Price.	Belt required.	Diameter of Pulley.	Rev'lutions per minute	Approximate N.H.P.	Diameter of Rings.	Approx. quantity per hour.	Total Weight.	Cubic Measurement.	Floor Space Length.	Width.
Rose	1	£45	3 inches	8 inches	900	4 to 6	19 in.	5 to 20 cwt.	6 cwt.	16 cubic ft.	5 ft.	4 ft.
Violet	2	£80	5 ,,	14 ,,	800	8 to 12	29 ,,	20 to 50 ,,	15 ,,	52 ,,	5 ft. 9 in.	4 ft. 3 in.
Daisy	3	£120	6 ,,	18 ,,	800	12 to 18	39 ,,	50 to 100 ,,	40 ,,	125 ,,	6 ft. 6 in.	4 ft. 6 in.
Tulip	4	£180	8 ,,	20 ,,	700	18 to 25	46 ,,	100 to 200 ,,	70 ,,	200 ,,	7 ft. 6 in.	5 ft. 6 in.
Crocus	5	£230	9 ,,	22 ,,	600	25 to 35	54 ,,	200 to 600 ,,	120 ,,	351 ,,	8 ft. 3 in.	6 ft. 6 in.
								Tons per day.				
Briar	3½	£160	7 ,,	18 ,,	800	12 to 18	42 ,,	200 to 300 ,,	92 ,,	141 ,,	7 ft. 6 in.	4 ft. 6 in.
Lily	4½	£200	8 ,,	20 ,,	700	18 to 25	50 ,,	400 to 500 ,,	150 ,,	230 ,,	8 ft. 6 in.	6 ft. 6 in.

Nos. 3½ and 4½ Size Machines are made specially for Coal Grinding.

FREE ON RAIL LONDON, LIVERPOOL, GLASGOW, OR EQUAL.
PACKING FOR SHIPMENT EXTRA.

Sole Makers:

THE HARDY PATENT PICK Co. LTD.,

Engineers and Mining Tool Makers,

SHEFFIELD, England.

Makers of COAL WASHING AND COKING PLANTS, ELEVATORS, ELEVATOR BUCKETS, DRIVING CHAINS, CONVEYORS, SEPARATORS, SHAFTING, PULLEYS, and all apparatus connected with GRINDING AND PULVERIZING MACHINERY.

TELEGRAPHIC ADDRESS—"HARDYPICK," SHEFFIELD.

A New and "Marvellous Machine"

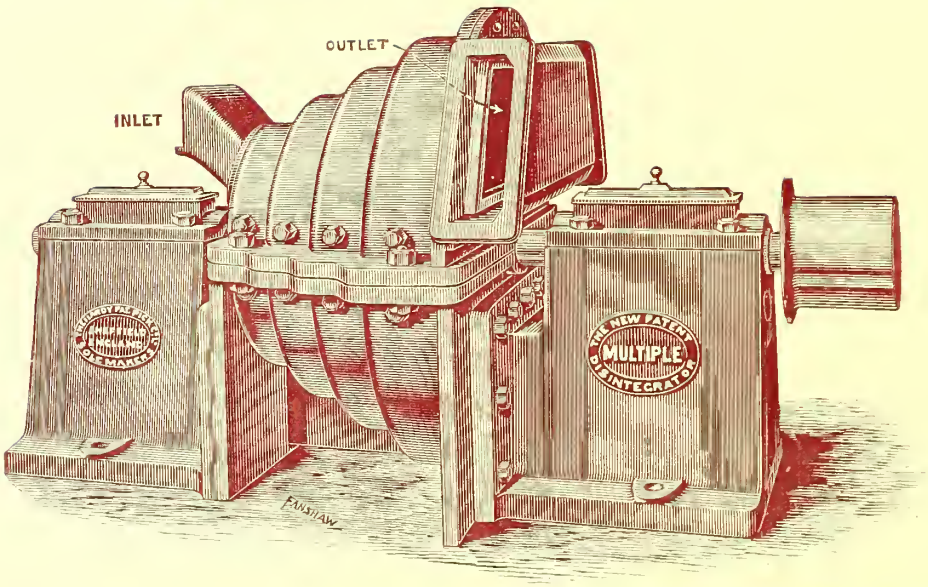
FOR FINE AND IMPALPABLE POWDERS.

The Multiple Grinder

Is unapproachable by any other Mill.

It Grinds FRIABLE, Fibrous, or Moist Materials

AT ONE OPERATION.



MAIZE and other Grain can be reduced to the fineness and softness of wheat flour.

SUGAR is Ground finer than in any other Machine.

GLUE is reduced to any degree of fineness.

In short, there are few, if any Materials that this Mill will not deal with.

This Machine deals successfully with Materials that would Clog up any of the ordinary mills with grids.

The wearing parts are simple, inexpensive, and easily replaced.

Code Word.	No.	PRICE.	Belt required.	Diameter of Pulley.	Revolutions per minute.	Approximate N.H.P.	Approx. quantity per hour.	Total Weight.	Cubic Measurement.	TOTAL SPACE. Length. Width. Height.
Bat.	1	£45	3 inches.	5 inches.	2500	4	3 to 5 cwt.	6 cwt.	19 feet.	4′0″ × 2′2″ × 2′2″
Pin.	2	£80	4½ ,,	7 ,,	2500	6	5 to 15 ,,	18 ,,	38 ,,	5′4″ × 2′9″ × 2′7″
Nut.	3	£120	6 ,,	9 ,,	2000	10	10 to 40 ,,	40 ,,	85 ,,	6′0″ × 3′9″ × 3′9″

☞ ANY MACHINE SENT ON APPROVAL. ☜

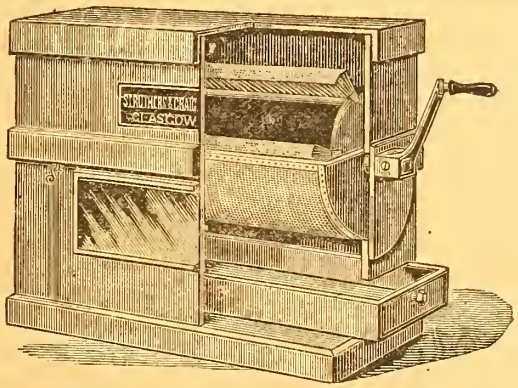
PLEASE TURN OVER.

NO LABORATORY COMPLETE WITHOUT ONE OF

STRUTHERS & CRAIG'S
POWDER MIXING AND SIFTING MACHINES.

The Latest and Most Improved for Chemists and Druggists.

No. 00.		*£1 1 0*
No. 1.		*£2 0 0*
No. 2.		*£2 10 0*
No. 3.		*£3 0 0*



[NETT.

THESE Machines have been introduced to supply a long felt want among Chemists, Druggists, and others making light Powders which require to be mixed and sifted, and have had a large and steady sale since their introduction a few years ago. Druggists will find them specially useful in the preparation of such Powders as Pulv: Rhei: Comp:, Pulv: Jalapae: Co:, Pulv: Glycyrr: Co., etc., etc. A reference to the above sectional woodcut will give an idea of the Machines as made. The Patentees claim for their Machines the following among other advantages:—

They save waste of time and material.
They mix and sift more rapidly than ordinary sifters.
Wholly enclosed, the materials do not escape or annoy the operator.
Simple in construction, they may be quickly fitted, easily cleaned, and are not liable to get out of order.
Made of seasoned hardwood, they may be washed and cleaned without injury to parts.
Fitted with Glass Windows, progress of operation may be obtained without interrupting the working.
Fitted with sliding drawers, the powder may be easily removed after sifting.

The above Machines are made in four sizes, No. 3 Machine is 21 inches long, 11 inches broad, 22 inches deep, and holds about 20 pounds, (Avor.) No. 00, the new "Guinea" size, highly recommended for use at the Dispensing Counter. The Sieves may be had on Special Frames. Any size of Machine, either larger or smaller, may be made to order, and gearing adjusted.

Prices and Testimonials on Application.

STRUTHERS & CRAIG,

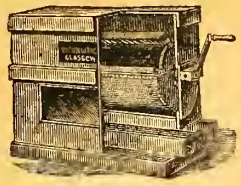
— PATENTEES, —

124 GLOUCESTER STREET, Kingston, GLASGOW.

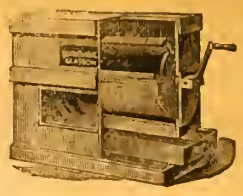
AGENTS.

LONDON, - -	HATRICK & CO., LIMITED, 31 SNOW HILL, E.C.
LIVERPOOL, - -	EVANS, SONS & CO., 56 HANOVER STREET.
BELFAST, - -	JOHN CLARKE & CO., LIMITED, 12 and 14 CORPORATION STREET.
EDINBURGH, - -	PINKERTON, GIBSON & CO., THISTLE STREET LANE, E.
GLASGOW, - -	HATRICK & CO.; GLASGOW APOTHECARIES CO.; JAMES TAYLOR; AND BROWN BROTHERS & CO.
YORK, - - -	RAIMES & CO., 12 MICKLEGATE.
NEWCASTLE, - -	PHILLIPS SPENCER, LOW FRIAR STREET.

[OVER.



STRUTHERS & CRAIG, KINGSTON, GLASGOW.



TESTIMONIALS

IN FAVOUR OF OUR

"IMPROVED" Mixing and Sifting Machines.

LOCHANBANK COTTAGE,
LESMAHAGOW, *2nd October*, 1888.

GENTLEMEN.—Since I got your Mixing and Sifting Machine I have been in the habit of mixing up powders I would not formerly have thought of. It is very quick and cleanly in doing its work, and makes a most thorough mixture of the ingredients.—I am, yours truly,

Messrs STRUTHERS & CRAIG. J. LINDSAY.

---

166 SOUTH CUMBERLAND STREET,
GLASGOW, *4th October*, 1888.

GENTLEMEN.—I have had in constant use for about twelve months one of your improved Mixing and Sifting Machines. It does its work quickly and cleanly, and gives no trouble to the operator. I can recommend it with confidence to any one requiring a Sifting Machine.—Yours truly,

Messrs STRUTHERS & CRAIG. GEORGE MUIR.

---

8 HIGH STREET,
BRECHIN, *4th October*, 1888.

DEAR SIRS,—I am much pleased with your Mixing and Sifting Machine which I procured through Messrs SANG & BARKER. It does its work rapidly and efficiently, and is easily disconnected and cleaned. For light Powders, such as "Pulv: Rhei: Co:," it is especially suitable. If a little care is taken, these powders may be prepared in it with an almost entire absence of dust.—I am, yours faithfully,

D. HODGETON, M.P.S.

Messrs STRUTHERS & CRAIG, Glasgow.

---

108 CATHCART ROAD, GOVANHILL,
GLASGOW, *11th October*, 1888.

DEAR SIRS,—I have much pleasure in testifying to the practical use of your Powder Mixing Machine which I purchased a year ago. It saves time and the powders are uniformly mixed without a partical of dust escaping. It supplies a much felt want of the Laboratory.—Yours sincerely,

J. C. STEELE,
Manufacturer of Patent Chloride of Lime Packets.

Messrs STRUTHERS & CRAIG, Kingston, Glasgow.

---

112 NEW CITY ROAD,
GLASGOW, *1st March*, 1889.

DEAR SIRS,—After a year's trial of your Sifting Machine I find it well fitted for its work. It does the mixing in a thorough and clean way, and is the *best* I have seen for making "Gregory's Mixture."—Yours truly,

Messrs STRUTHERS & CRAIG. D. P. WALKER.

[*This was an extra large Machine which was supplied to Mr Walker.*—S. & C.]

---

35 and 37 WASHINGTON STREET,
GLASGOW, *2nd February*, 1889.

GENTLEMEN,—The Sifting Machine we had from you some time ago has given entire satisfaction. It does its work rapidly and saves a great deal of time. We can recommend it to parties who have large quantities of powder to mix.

Yours truly,
BROWN BROTHERS & CO.

Messrs STRUTHERS & CRAIG.

---

65 PERTH ROAD,
DUNDEE. *4th October*, 1888.

DEAR SIRS,—The Patent Mixing and Sifting Machine I purchased from your Agents in Edinburgh, (Messrs Sang & Barker) has been found to be a great success. Saves time, labour, and trouble.—Yours faithfully,

Messrs STRUTHERS & CRAIG. A. LAWSON.

THE SCOTTISH DRUG DEPOT, LTD.,
LEITH, *4th October*, 1888.

DEAR SIRS,—We have had one of your Sifters in almost daily use for the past six months. It does its work well, and gives us every satisfaction.—Yours truly,

A. D. GRAY, *Manager*.

Messrs STRUTHERS & CRAIG, Kingston, Glasgow.

---

44 SOUTH METHVEN STREET,
PERTH, *4th October*, 1888.

GENTLEMEN,—I am glad to be able to report favourably on the Sifting Machine you sent me some time ago. It has given me entire satisfaction. We must have one considerably larger, however. Please say if you have one with drawer to hold 14 pounds of powder.—Yours truly,

R. P. BLAIR, M.P.S.

Messrs STRUTHERS & CRAIG.

STRANRAER, *27th February*, 1889.

GENTLEMEN,—Permit me to add my testimony to the excellency of your Mixing Machine. I find by the use of the one I had from you a year ago, a great saving of time and labour in the preparation of Compound Powders

Yours truly,

Messrs STRUTHERS & CRAIG. R. KER.

---

17 NORTH BRIDGE,
EDINBURGH, *23rd February*, 1889.

DEAR SIRS,—We have pleasure in stating that we have found your Sifter quite satisfactory for the purpose to which we apply it.—We are, Dear Sirs, yours truly,

J. F. MACFARLAN & CO.

Messrs STRUTHERS & CRAIG, Glasgow.

[*This Machine was fitted with the Adjustable Sieves.*—S. & C.]

---

49 KEMPOCK STREET,
GOUROCK, *19th October*, 1892.

GENTLEMEN,—I am very much pleased with the Sifting Machine I had from you some time since. It does splendidly for making "Gregory's Powder."—Yours truly,

Messrs STRUTHERS & CRAIG, Glasgow. R. BARR.

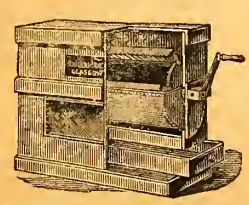
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12 BRIDGETON CROSS,
GLASGOW, *29th October*, 1892.

DEAR SIRS,—We have used your Mixing and Sifting Machine for making "Pulv: Rhei: Co:" only, for which purpose it answers admirably.

Messrs STRUTHERS & CRAIG, WILLIAM WEIR.

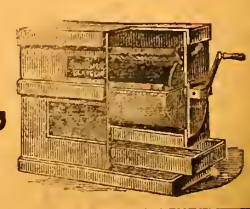
FURTHER PARTICULARS ON APPLICATION.



STRUTHERS & CRAIG,

124 GLOUCESTER STREET,

KINGSTON, GLASGOW.



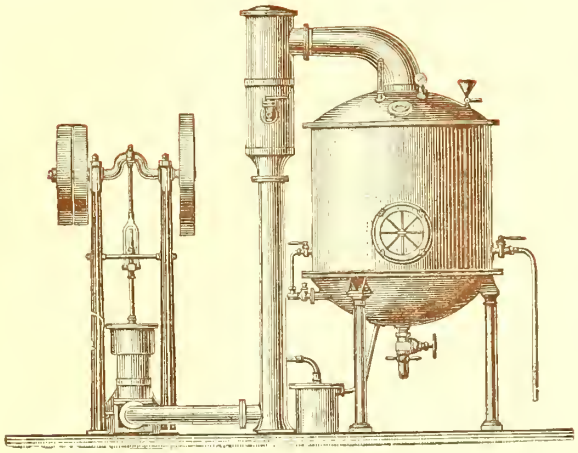
Telegrams: "COPPERSMITH, LONDON."

BENNETT, SONS & SHEARS,

ENGINEERS AND COPPERSMITHS,

MANUFACTURERS OF

Plant for Chemical Works and Laboratories.



LABORATORIES DESIGNED & FITTED COMPLETELY.

Steam Engines,	Pewter Steam Pans,	Clove Oil Stills,
Steam Boilers,	Tilting Steam Pans,	Caraway Oil Stills,
Steam Pumps,	Steam Drying Tables,	Lavender Stills,
Shafting & Gearing,	Vacuum Pans,	Mint Stills,
Mills (various)	Vacuum Pumps.	Nitre Stills,
Edge Runners,	Acetic Acid Stills,	Portable Stills,
Disintegrators,	Alcohol Stills,	Sal Volatile Stills,
Hydraulic Presses,	Almond Oil Stills,	Sandal Oil Stills,
Stirrers,	Ammonia Stills,	Vacuum Stills,
Copper Steam Pans,	Aq. Destil. Apparatus,	Steam Filters.

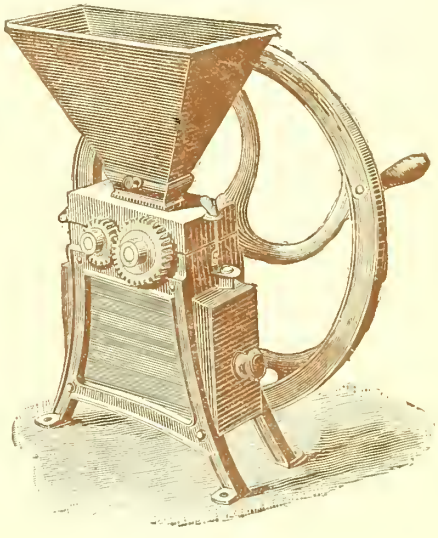
The NEW DRUG MILL.

UNIVERSAL DRUG MILLS, WITH HELICALLY GROOVED AND FLUTED ROLLERS, FOR GRINDING DRUGS, OLEAGINOUS SEEDS, ROOTS, HERBS, &C., &C.

PRICES—No. 1 with Wrought-Iron Hooper, **35s.** ea. No. 2 with do., much larger, **85s.** ea.

SPECIAL MILLS FOR POPPIES.

No. 0 with Loose Wrought-Iron Hooper, **35s.** each. No. 0 with fixed Wrought-Iron Hooper, **30s.** each.



CAPACITY.

No. 1 will crush at 60 turns a minute 40 lbs. of Linseed or Mustard per hour passed through once; if passed through twice 20 lbs.

No. 2 do. do., 66 lbs. per hour once; 33 lbs. twice.

Common grinding is obtained by a single passage of seeds through the rollers, and fine grinding by double passage. For second passage, tighten the cylinders with screw. The cleaning combs, each side of the Mill, must always bear lightly against the Rolls to avoid clogging.

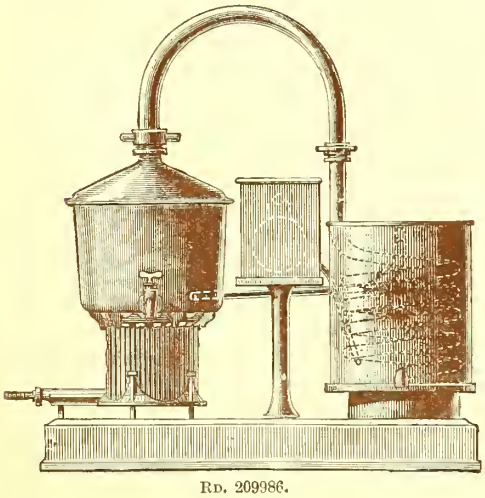
We can also supply these Mills of larger sizes, viz., No. 3 and No. 3a, mounted on Iron Stands with Pulleys for Strap driving.

No. 3 would have pulley 16 in. diameter, and should be driven 110 revolutions a minute.

No. 3a would have pulley 27½ in. diameter, and should be driven 110 revolutions a minute.

At these speeds No. 3 will crush 264 lbs. of Linseed or Mustard per hour once passed through, and No. 3a 363 lbs. per hour.

The Price of No. 3 Mill complete, is **£12 10 0** No. 3a Mill complete, is **£16 10 0**



Rd. 209986.

The "AUTO" STILL.

(A SURE PREVENTATIVE AGAINST CHOLERA.)

PRODUCES ABSOLUTELY PURE DISTILLED WATER. ENTIRELY AUTOMATIC. ECONOMICAL IN WORKING. REQUIRES NO ATTENTION. COMPACT IN DESIGN SAVES LABOUR. IS VERY DURABLE AND INEXPENSIVE.

This Apparatus has been designed to supply a want long felt by **Chemists, Dispensers, Wine Merchants, Hotel Keepers, Analysts and Hospitals, &c.**, *i.e.*, the production of sufficient Pure Distilled Water for the daily need, automatically in an inexpensive Apparatus, requiring no attention, at the lowest possible cost.

The *New Review* lately contained an article, by Dr. Robert Koch, on the propagation and prevention of cholera.

Recent experience distinctly shows that drinking water is the vehicle by which the germs most often gains access to the body; and the purity of the water used for drinking is a matter of supreme importance.

An Oil Lamp can be used instead of Gas, if required

This Apparatus produces half-a-gallon of Distillate per hour, or say five gallons per day

PRICE £5 COMPLETE. Packing extra. *To be obtained of all Chemists.*

Estimates given for Larger Sizes Heated by Gas, Steam or Fire, on application.

AGENTS WANTED IN EVERY TOWN.

167, KINGSLAND ROAD, LONDON, N.E.

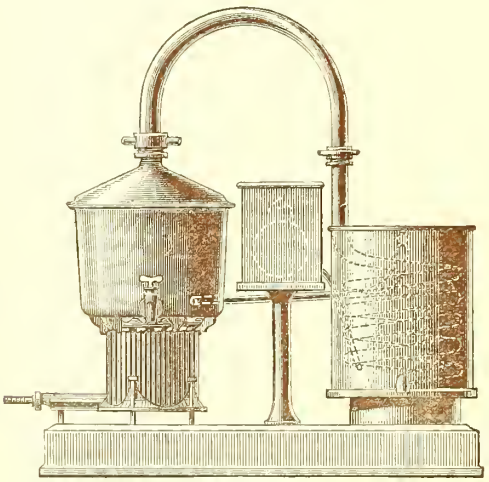
In making enquiries, in all cases please state size or capacity of utensils, &c., required.

READ WHAT "THE CHEMIST & DRUGGIST" SAYS CONCERNING OUR MANUFACTURES:—

See page 381 of the issue March 18th, 1893.

THE "AUTO" STILL.

"THE recent exposure in this journal of the bad quality of "stuff supplied to the trade as distilled water renders "necessary for all conscientious pharmacists to follow the "practice which obtains in analytical laboratories of distilling "water as it is required. In this way only can we ensure that "distilled water is pure and fresh. To meet what ought to "be a brisk demand for water-stills, Messrs. Bennett, "Sons & Shears, of 167, Kingsland Road, N.E., have "designed and are now manufacturing an apparatus, at a "moderate price, which they call the "Auto" Still. The "form of this is exhibited in the illustration. The still is "of copper, well-tinned inside, and connected with this by "suitable unions are a swan-neck and condensing worm, both "made of pure block tin. The condensing-tank is directly



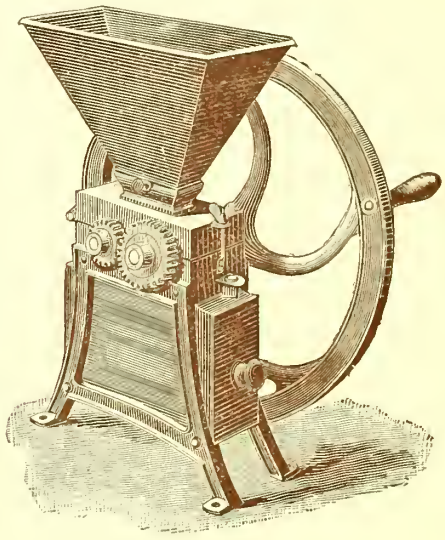
Rd. 209986.

"connected with the body of the still, so that the hot condense "water of the tank flows into the still as the water in the "latter is vaporised. Between the still and the tank is a "regulating-cistern, which supplies the condensing-tank with "fresh cold water. This cistern can be supplied direct from "the water-tap, so that at once the apparatus is started and "regulated; distillation goes on automatically. This is an "immense advantage; but, of course, in the case of some "waters we must ensure that the distillate contains no "ammonia, and that can be done by charging the still at "the outset with permanganate of potash and sulphuric acid. "Obviously, this apparatus is one which is well suited for "pharmaceutical purposes. It is compact, the whole standing "on a cast-iron bed-plate 2 feet by 8½ inches, it provides "half-a-gallon of distilled water per hour, and it can be "heated by gas or oil stove."

See also page 808 of the issue December 3rd, 1892.

"A NEW DRUG-MILL.

"MESSRS. BENNETT, SONS & SHEARS, 167, "Kingsland Road, E., are introducing to the drug-"trade a new mill which appears to be well suited for the "every-day wants of pharmacy. It will be seen from our "illustration that the design of the mill is very neat, and we "can add that the principle of construction is sound. The "grinding-surfaces are two solid steel cylinders, the surfaces "of which are turned into helicoid grooves, and in the act "of grinding, these rotate in opposite directions, thus



"inducing thorough disintegration. There is a sliding "toothed plate below the cylinders which keeps the cylinders "always clean. The mill can be quickly taken down into "parts for cleaning, and, judging from our own results with "ipecacuanha, it should become a popular mill with the "trade, especially as the price is moderate—viz., **35s.** The "mill will grind anything from linseed to ipecacuanha—one "of the toughest things we know of. There is also a "larger size."

NOTICE—*Special attention is given to the manufacture of all kinds of Chemical Plant.*

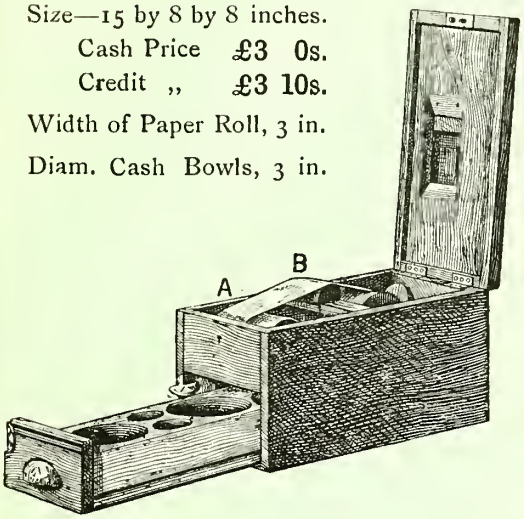
TERMS ON APPLICATION.

Lofts' Check Tills.

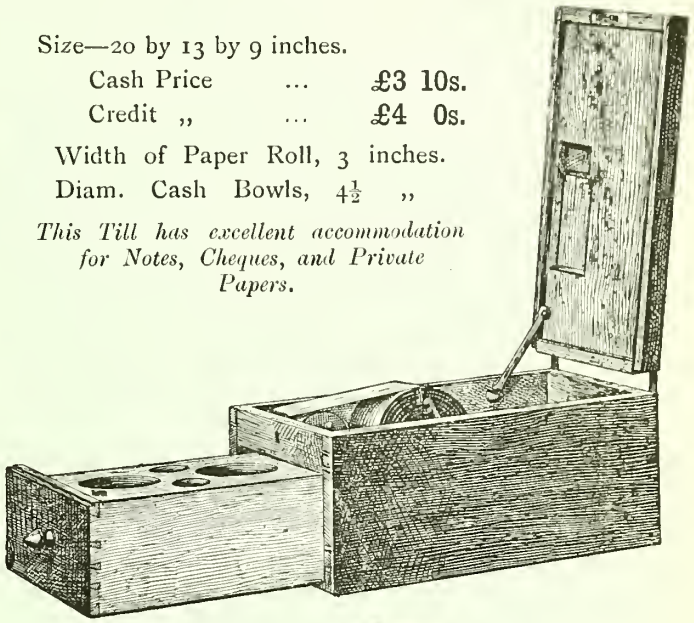
FOURTEEN DAYS' FREE TRIAL BEFORE PURCHASE.

Made in Solid Mahogany. In Walnut 5/- extra.

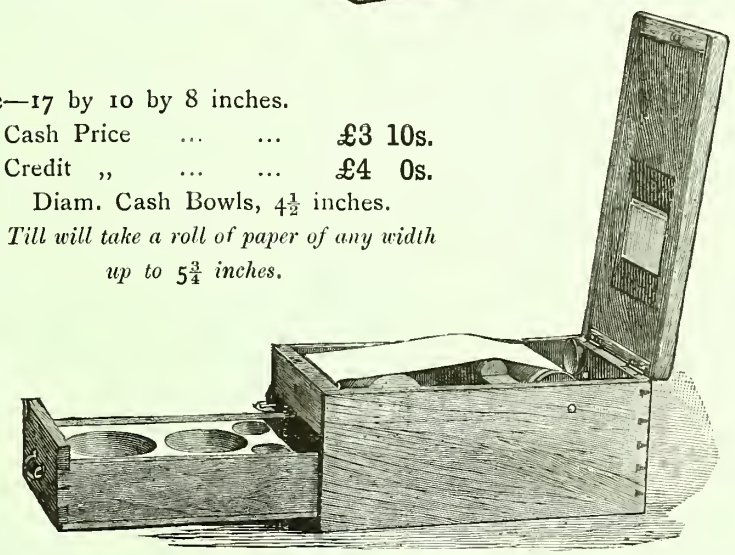
Size—15 by 8 by 8 inches.
Cash Price £3 0s.
Credit ,, £3 10s.
Width of Paper Roll, 3 in.
Diam. Cash Bowls, 3 in.



Size—20 by 13 by 9 inches.
Cash Price ... £3 10s.
Credit ,, ... £4 0s.
Width of Paper Roll, 3 inches.
Diam. Cash Bowls, 4½ ,,
This Till has excellent accommodation for Notes, Cheques, and Private Papers.



Size—17 by 10 by 8 inches.
Cash Price ... ... £3 10s.
Credit ,, ... £4 0s.
Diam. Cash Bowls, 4½ inches.
This Till will take a roll of paper of any width up to 5¾ inches.



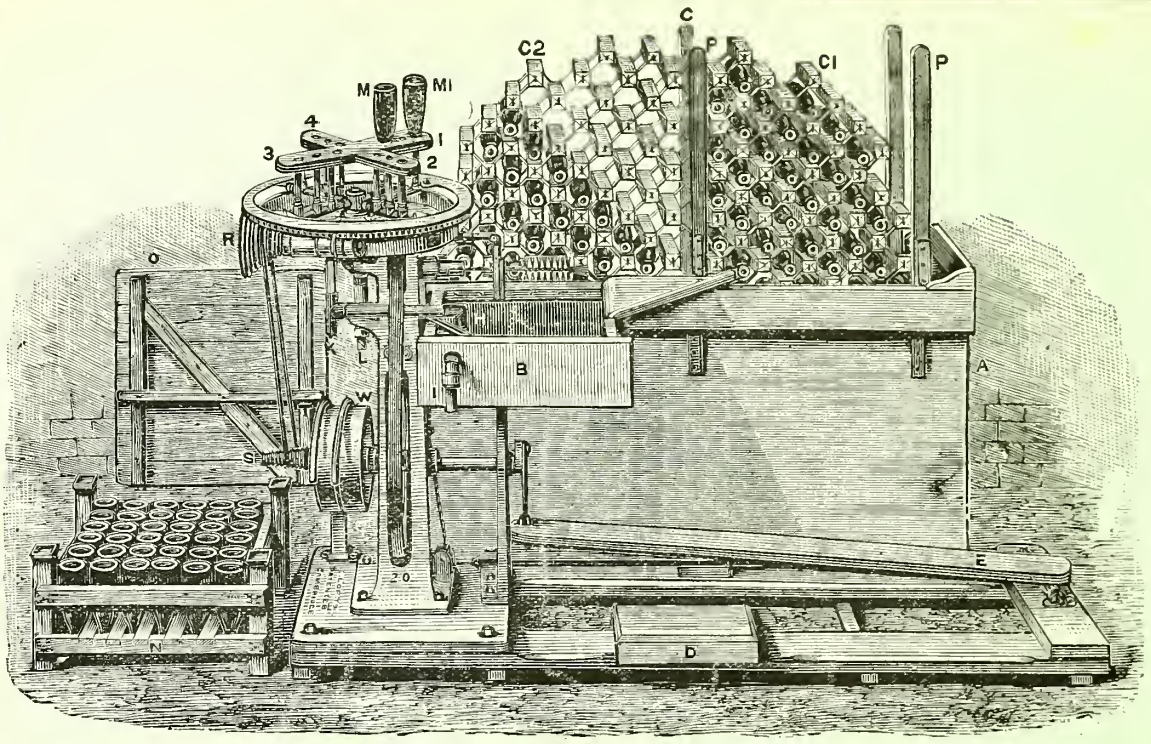
MANUFACTURED BY

Lofts' Patent Check Till Co., Ltd.,

112, HILLS ROAD, CAMBRIDGE.

Telegrams:—CHECKTILL, CAMBRIDGE. Brewers' Exhibition, London, Bay 22.

Size—7 ft. long, 4 ft. wide, 5 to 7 ft. high.



Galvanized Iron or Wood Tanks.

LOFTS' LATEST IMPROVED PATENT

BOTTLE WASHING & RINSING MACHINE.

This Machine is specially adapted for soaking, brushing, and rinsing all kinds of Ale, Wine, and Mineral Water Bottles. It is fitted with a Patent Self-Acting Rinser, which ensures each bottle getting an equal amount of rinsing. It effects a great saving of labour also, the rinsing water being turned off and on automatically. There is, besides, no waste of potash solution, with which the bottles are soaked, as this is returned to the tank (A) by a pipe to be re-used, whilst all the water from the rinsing jets is returned to the brush tub (B) for re-use.

LOFTS' CHECK TILLS

Are the SIMPLEST, CHEAPEST, QUICKEST, and MOST EFFICIENT check ever invented. These Tills have stood the test of time during the last EIGHTEEN YEARS, and are to-day the best in the market at the price. No complicated mechanism to get out of order, the fittings being of the simplest description and of the best ENGLISH manufacture. Sent, Carriage forward, on 14 days' free trial before purchase, on receipt of Money Order or good trade references.

To LOFTS' PATENT CHECK TILL Co. (Limited), HILLS ROAD, CAMBRIDGE.

Please to send me of your Check Tills on the 14 days' trial system, as offered in the annexed circular.

Name _____ *Business* _____

Date _____ *Address* _____

Size of Till required _____

References _____

C. & D.

BIPALATINOIDS OF CARBONATE OF IRON. LAXATIVE PALATINOIDS.
CREAM OF MALT WITH COD LIVER OIL AND HYPOPHOSPHITES.

Presented with the Compliments of Oppenheimer, Son & Co., Ltd., 14, Worship Street, E.C.



Manufacturers of Palatinoids, Bipalatinoids, Concentrated Liquors, Cream of Malt &c.

LIQ. HELALIN ET PEPSIN Co. LIQ. CAULOPH ET PULSATILLÆ Co. (OPPENHEIMER).
LIQ. EUONYMIN ET PEPSIN Co. (OPPENHEIMER).

Palatinoid.  Closed.

"PALATINOIDS."

(By Royal Letters Patent.)

Palatinoid.  Opened.

"LANCET," NOV. 29TH, 1890.

"We are bound to admit the great excellence and elegance of this new method."

"The profession generally will not be slow to recognise its very obvious advantages."

"To children, who have as a rule the strongest objection to swallowing anything that is not pleasing to the palate, this form must prove a veritable boon."

BRAITHWAITE'S "RETROSPECT OF MEDICINE."

"The most elegant and reliable method of administering nauseous drugs with which we are acquainted. The drugs are, as analysis shows, of the highest attainable purity, and of exact precision in dose. We found them in every way a success. Their ingenious construction enables them to be swallowed by the worst of 'pill takers' with ease. Efficient, elegant, and exact."

"BIRMINGHAM MEDICAL RECORD."

"We can strongly recommend 'Palatinoids' as a great improvement in the administration of drugs."

"EDINBURGH MEDICAL JOURNAL."

"'Palatinoids' are easily swallowed, and are sure to become popular with the Profession. We can confidently recommend them to the notice of our readers."

"MEDICAL ANNUAL."

"One of the most elegant and efficient methods of administering medicines which has yet been brought before the notice of the Profession."

"HOSPITAL GAZETTE."

"Among recent improvements in pharmacy, there is none more ingenious, meritorious, or practically useful than 'Palatinoids.' Being in the form of powder, the medicament is most readily absorbed, and the full therapeutic effect of the drug thus ensured. . . Thus is the 'Bi-Palatinoid' bound to supersede Bland's Pill. The merits of this method of administering certain medicines are such as will, we feel sure, ensure its adoption."

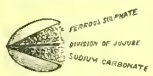
No.		Per Dozen Tubes.	Per Gross.
	Aconite Tr. m. 5	8/6	3/6
	,, ,, m. 10	8/6	3/6
	Aloin Nux Vomica and Belliad.	8/6	3/-
	Aloes Compound	8/6	2/6
	Aloin c. Podophyllin	8/6	2/6
	Aloin c. Jalapin Co.	8/6	3/-
	ANTICONSTIPATION	8/6	2/6
	ANTACID or SODA MINT	8/6	2/6
	ANTIBILIOUS, VEGETABLE	8/6	2/6
	ALOIN C. STRYCH. ET BELLAD.	8/6	3/-
	Alterative Comp.	8/6	2/6
	APERIENS FORT.	8/6	2/6
	Belladonna Tr. m. 5	8/6	2/6
	,, ,, m. 10	8/6	2/6
	Bismuth Carb. gr. 4	8/6	3/-
	,, Cit. gr. 4	8/6	3/-
	,, Salicylas gr. 4	8/6	3/-
	,, Subnit. gr. 2	8/6	2/6
	,, ,, gr. 4	8/6	3/-
	,, ,, gr. 8	10/6	5/-
	,, ,, et Pepsine	8/6	3/-
	Butyl. Chlorai Hydras. gr. 5	12/6	5/6
	Caffein Pur. gr. 2½	8/6	2/6
	,, Cit. gr. 2½	8/6	2/6
	,, Hydrobrom. gr. 1	8/6	2/6
	,, ,, gr. 2½	8/6	2/6
	,, Valerianas, gr. 2½	9/6	4/-
	Calcii Sulphid. gr. ¼	8/6	2/6
	,, ,, gr. ½	8/6	2/6
	,, ,, gr. 1	8/6	2/6
	,, Lactophosph. gr. 2½	8/6	2/6
	Camphora, gr. 1	8/6	2/6
	,, gr. 2	8/6	2/6
	Carbo Animalis	8/6	2/-
	Cannabon (O. S. & Co.'s)	—	—
	Camphor Co. Tr. m. 10	8/6	2/6
	Cascara Sagrada Co.	8/6	2/6
	CASCARA EXT. PULV. gr. 1	8/6	2/6
	CASCARA EXT. gr. 2	8/6	2/9
	,, c. Bism. Subnit. aa. gr. 1	8/6	2/6
	,, gr. 1 c. Colocynth, gr. ½	8/6	2/6
	,, c. Euonymin aa. gr. ¼	8/6	2/6
	,, c. Hyd. Subch. aa. gr. ¼	8/6	2/6
	,, Nux Vom. and Belliad.	8/6	2/6
	CATHARTIC COMP.	8/6	2/6
	Cascara Ext. c. Iridin aa. gr. ¼	8/6	2/6
	,, c. Pepsin.	8/6	3/-
	Cerii Oxalas gr. 2	8/6	2/6
	Cocain Hydrochlor. gr. ¼	18/-	8/3
	Codeia gr. ¼	12/6	5/6
	Codeia gr. ½	20/-	9/3
	Colocynth, Co. P. Ext. gr. 2	8/6	2/6
	Digestive Comp.	8/6	2/6

No.		Per Dozen Tubes.	Per Gross.
	Digitalis Tr. m. 10	8/6	2/6
	Digitalis c. Hyd. Subchlor. et Scillæ	8/6	2/6
	Emmenagogue	10/6	5/-
	Ergotine, gr. ¼	10/6	5/-
	,, gr. 2	18/-	8/3
	,, Comp.	10/6	4/6
	Euonymin et Cascar. Co.	8/6	2/6
	Euonymin, gr. ¼	8/6	2/6
	,, gr. 2	8/6	3/-
	,, gr. ⅓, c. Colocynth, gr. ½	8/6	2/6
	,, ET HYD. SUB. aa. gr. ¼	8/6	2/6
	,, gr. ¼ et Podoph. gr. ¼	8/6	2/6
	Ferri et Ammon. Cit. gr. 2	8/6	2/6
	,, ,, gr. 4	8/6	3/9
	Ferri Arsenias, gr. 1/25	8/6	2/6
	,, Lactas gr. ¼	8/6	2/6
	,, Peptonas, gr. ¼	6/6	2/6
	,, Phosphas, gr. ¼	8/6	2/6
	,, Phosph. Co.	8/6	2/6
	,, et Potass. Tart. gr. 2	8/6	2/6
	,, ,, gr. 4	8/6	3/6
	,, Sulphas. Exsicc, gr. ¼	8/6	2/6
	,, et Quin. Cit. gr. 2	8/6	2/6
	,, ,, gr. 4	8/6	3/6
	,, Sulphas Exsicc, gr. ¼	8/6	2/6
	c. Aloes Barb. gr. ⅛	8/6	2/6
	,, Sulph. Ex. c. Aloes Barb. et Nucis Vom.	8/6	3/-
	,, Valerianas gr. ¼	10/6	4/6
	,, Quin. et Strych. Cit. gr. 2	8/6	2/6
	Ferrum. Redact. gr. ¼	8/6	2/-
	,, ,, gr. 2	8/6	2/3
	,, ,, gr. 5	9/6	2/6
	,, ,, c. Acid. Arsen.	8/6	2/9
	,, ,, et Ergotine	9/6	4/-
	Hepatic Comp.	8/6	3/-
	Hyd. c. Cretæ, gr. ¼	8/6	2/-
	,, gr. 2	8/6	2/-
	Hyd. Iodid. Rub. gr. 1/25	8/6	3/6
	Hyd. Subchlor. gr. ¼	8/6	2/6
	,, gr. 2	8/6	2/6
	,, gr. 4	9/6	3/-
	Hyoscyamine Amorph. gr. 1/50	12/6	5/6
	Iodoform Puiv. gr. ¼	12/6	5/6
	Ipecac. Puiv. Rad. gr. ¼	8/6	2/6
	,, ,, gr. ½	8/6	2/6
	,, ,, gr. 1	8/6	2/6
	Ipecac. Co. Puiv. B.P. gr. 2	8/6	3/-
	,, ,, gr. 4	9/6	4/-
	LAXATIVE	9/6	4/-
	Manganes. Diox. gr. 2	8/6	3/-
	Menthol. gr. 1	10/6	4/6
	Morphin. Hydroch. gr. ⅛	8/6	3/-
	,, ,, gr. ¼	8/6	3/-

"PALATINOIDS."

No.		Per Dozen Tubes.	Per Gross.
	Morphin. Hydroch. gr. ½	8/6	3/6
	Neuralgic Comp.	8/6	2/6
	Nux Vom. Tr. m. 5	8/6	2/6
	,, ,, m. 10	8/6	2/6
	Oplum Pulv. gr. ¼	8/6	3/-
	,, ,, gr. ½	8/6	3/-
	,, ,, gr. 1	8/6	3/6
	Oplum P. gr. ½, Hyd. Sub. gr. 1/1	8/6	3/6
	Oplum P. gr. 1/1, Ext. Bellad. gr. ¼	8/6	3/6
	Oplum Tr. m. 5	8/6	2/6
	,, m. 10	8/6	2/6
	Pectoral Comp.	8/6	2/6
	PEPSINE PORCI, gr. ½	8/6	2/6
	,, ,, gr. 2	8/6	2/9
	Pepsine and Gingerine	8/6	2/9
	Phenacetin, gr. 2	10/6	4/6
	,, gr. 4	12/6	5/6
	Pilocarpine Mur, gr. 1/32	8/6	3/6
	Podophyllin, gr. ¼	8/6	2/6
	,, gr. ½	8/6	3/-
	,, c. Hyd. Sub.	8/6	2/6
	Potass Bromid. gr. 2	8/6	3/6
	,, ,, gr. 4	8/6	3/6
	QUININE gr. 2 and GELSEMIN, gr. ½	12/6	5/6
	QUININE gr. 1/1 Gelsem. gr. ⅛	8/6	3/6
	QUININE HYDROCH. gr. 1/1	8/6	2/-
	,, ,, gr. 2	8/6	2/6
	,, ,, gr. 3	8/6	3/4
	,, HYDROBROM. gr. 1/1	8/6	2/-
	QUININE HYDROBROM. gr. 2	8/6	2/6
	,, ,, gr. 3	8/6	3/4
	,, SULPH. gr. 1	8/6	1/3
	,, ,, gr. 2	8/6	1/11
	,, ,, gr. 3	8/6	2/9
	,, SALICYLAS, gr. 1/1	8/6	2/-
	,, ,, gr. 2	8/6	2/9
	,, Valerianas, gr. 1/1	8/6	2/-
	Rhei Co. Pulv. gr. 5	8/6	2/6
	,, Pulv. Rad. gr. 1/1	8/6	2/6
	,, ,, ,, gr. 4	8/6	3/-
	,, ,, c. Hyd. Subch. aa. gr. 1/1	8/6	2/6
	Rheumatic Comp.	8/6	2/6
	Salol, gr. 2½	8/6	3/-
	Santonin, gr. 1/1	8/6	3/-
	,, gr. 2	8/6	3/6
	,, gr. 1, c. Hyd. Sub. gr. ½	8/6	3/-
	Santal Comp.	9/4	4/-
	Soda Mint	8/6	2/6
	Sodii Arsen. Anhyd. gr. 1/32	8/6	2/6
	Sodii Bicarb. gr. 4	8/6	2/6
	Stomachic Comp.	8/6	2/-
	Sulphonal, gr. 4	12/6	5/6
	Sulphur Comp.	8/6	1/6
	Thymol. gr. 1/1	8/6	3/-
	Tonic Comp.	8/6	2/6
	Zinci Oxid. gr. 1/1	8/6	2/6
	,, valer. gr. 1/1	8/6	3/-

Bipalatinoid.



Ferrous Carbonate.

"BIPALATINOIDS."

(By Royal Letters Patent.)

Bipalatinoid.



Ferrous Phosphate.

"LANCET," JAN. 2ND, 1892.

"While we recognise in 'Palatinoids' one of the best methods for administration of unstable and nauseous drugs that have hitherto been devised, yet we think that the 'Bi-Palatinoid,' recently introduced by Messrs. Oppenheimer & Co., is entitled to even greater praise by reason of the ingenuity and skill which it displays. . . Practitioners have long recognised the difficulty of administering many of the valuable combinations of the proto-iron salts in a satisfactory and pure condition. The Pharmacopœia allows, it appears, no less than 53 per cent. of impurity in ferrous phosphate, and 90 per cent. in ferrous arseniate. Any method therefore which aims at securing greater accuracy of dosage, and accordingly a full and more certain therapeutic effect from medicaments such as those mentioned, will, as a matter of course, meet with hearty and very general approval. Their employment places the administration of exceedingly unstable compounds—like ferrous carbonate, phosphate, and arseniate—upon a sounder and more scientific basis. . . There is no need to offer any interpretation of the results—they are so palpably satisfactory."

"BRITISH MEDICAL."

"The 'Bi-Palatinoid' is an excellent method for the administration of ferrous carbonate in a pure unoxidized state. The air-tight covering entirely protects the contents from atmospheric influence, and the shape renders deglutition easy. We regard these 'Bi-Palatinoids' as a very ingenious and marked progress in elegant and efficient pharmacy."

"INDIAN MEDICAL RECORD."

"The acme of pharmacentical perfection at the present day."

"MEDICO-CHIRURGICAL JOURNAL."—"Prince of all."

No.		Per Doz. Tubes.	Per Doz. Gross.
500	FERROUS CARBONATE, gr. 4	8/6	30/-
501	,, ,, gr. 8	9/6	42/-
502	FERROUS CARB. c. ARSENIATE	9/6	42/-
503	,, ,, c. Aloes Barb.	9/6	42/-
504	Ferrous Carb. c. Aloes Barb. et Quinine	9/6	42/-
505	Ferrous Carb. c. Nux Vomica	9/6	42/-
511	Ferrous Carb. c. Arseniate and Nux Vomica	9/6	42/-
506	Ferrous Carb. c. Nux Vomica et Quinine	9/6	42/-
507	Ferrous Phosphate	9/6	42/-
512	Ferrous Carb. c. Ext. Cascara Sagrada	9/6	42/-
508	Ferrous Phosphate c. Nux Vomica	9/6	42/-
509	Ferrous Phosph. c. Nux Vomica and Quinine	9/6	42/-
510	Ferri Hypophosph. Co.	9/6	42/-

CONCENTRATED LIQUORS.

Liq. Bismuthi Co.	6/-	lb.
LIQ. CAULOPH. ET PULS. CO.	4 oz. 3/6	each
,, ,,	8 oz. 6/-	each
,, ,,	16 oz. 11/-	each
Liq. Copalbæ Co.	10/6	lb.
,, Ergotæ	10/6	,,
,, EUONYMIN ET PEPSINÆ CO.	10/6	,,
,, ,, ,, CASCAR. SAGRAD. Co.	10/6	,,
,, ,, et Culverin Co.	10/6	,,
,, ,, et Iridin Co.	10/6	,,
,, ,, ET PEPSIN CO.	10/6	,,
,, ,, et Peps. c. Bism. Co.	10/6	,,
,, ,, ,, c. Cascar. Co.	10/6	,,
,, ,, et Podophyllin Co.	10/6	,,
,, ,, et Pulsatillæ Co.	10/6	,,
,, Glatrucinæ Co.	10/6	,,
,, Helalinæ et Culverin Co.	10/6	,,
,, ,, ET PEPSIN. CO.	10/6	,,
,, HELALIN. ET CASCARA SAGRADA CO.	10/6	,,
,, Lithii et Colchici Co.	10/6	,,

CONCENTRATED LIQUORS.

Liq. Pepsinæ Acid (Peptoporcine)	8/-	lb.
,, Pepsinæ c. Bismuthi Co.	8/6	,,
,, Podoph. et Pulsatillæ Co.	10/6	,,

CREAM OF MALT PREPARATIONS.

	3- Size, Per Doz.	5/6 Size, Per Doz.
Cream of Malt, plain	24/-	46/-
,, ,, c. Coca	27/-	48/-
,, ,, c. Cod Liver Oil	27/-	48/-
,, ,, ,, and HYPOPHOSPH.	27/-	48/-
,, c. Cod Liver Oil and Terebene	27/-	48/-
,, c. Dialyzed Iron	27/-	48/-
,, c. Hypophosphites	27/-	48/-
,, c. Iodides	27/-	48/-
,, c. Peptones	27/-	48/-
,, c. Terebene	27/-	48/-

EUONYMIN COCOA	4 oz. tins	14/- per doz.
,, ,,	8 oz. tins	26/- ,,
,, ,,	16 oz. tins	48/- ,,

IMPORTANT NOTICE TO THE TRADE.

Owing to improvements in our Machinery and methods of production, we are now in a position to offer 'Palatinoids' at greatly reduced prices, which we feel confident will bear favourable comparison with the prices you are paying for Pills

We beg to point out a few of the advantages 'Palatinoids' possess over pills and other forms of medication—

A. Freedom from excipient—rendering the Drug more certain in its action.

B. Ease in swallowing on account of shape and jujube covering.

C. Palatability and elegance of appearance.

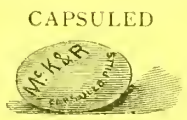
D. Accuracy of Dosage.

E. Quality of Drugs used.

F. Protection of the Drug from atmospheric influences or oxidation.

We feel confident by the favour with which 'Palatinoids' have been hitherto received by the Profession, as well as the general public, that Chemists will find it to their interest to push 'Palatinoids' in preference to the old-fashioned pills.

THE

"McK.&R." CAPSULED  PILLS.

Trade Mark, Registered.

ORIGINATED 1870 BY

McKESSON & ROBBINS,

Manufacturing Chemists, New York. Established 1833.

The profession and all dispensing chemists are supplied by the principal wholesale houses in the trade throughout Great Britain and Ireland, and are respectfully cautioned against many imitations.

"In the class of Pills there are probably few improvements that have attained such wide and speedy recognition in the profession to the beautiful Ovoid Capsuled Pills of McKESSON & ROBBINS, New York."—*Medical Press and Circular* (London).

"The Pills of McKESSON & ROBBINS are quite of the highest class of merit, in respect to the method, in respect to the materials, and in respect to results."—*British Medical Journal.*

PECULIAR MERITS OF THE "McK.&R." PILLS.

The covering *entirely disguises the taste*, and, because of the ovoid form, they are *easily taken by persons who cannot swallow round pills*—even when coated with sugar.

The Pills are *perfectly sealed* by a complete envelope of *pure transparent gelatine*—applied while the mass is soft—*protecting all delicate substances* from the oxidizing influences of the atmosphere, and *keeping the pills* in a *perfectly soluble condition.* The capsule *dissolves very quickly* when placed in the mouth.

They are *not* subjected to that injurious application of heat which so greatly impairs the ordinary coated pills.

We give this department our personal attention and carefully superintend every detail; as a consequence the uniform drugs and their exact subdivision in the "McK.&R. Pills" can be relied upon with confidence by the Profession, and these advantages can always be secured regardless of the locality in which the Pills may be dispensed.

McK.&R. FORMULA LIST

OF THE BRITISH PHARMACOPŒIA AND OTHER STANDARD AUTHORITIES.

Put up in Bottles Containing 25 or 100 Pills Each.

A

Aconitine Crystals, Duquesnel, 1-500 gr

Dr. A Dumas considers aconitine an energetic and very efficacious remedy, especially in congestive facial neuralgia. He lays great stress on the necessity for a reliable preparation, and we would, therefore, caution the physician to specify "McK.&R."

Aloes, Barb., B. P., 5 grs
{ Aloes Barb. Pulv., 2 1-2 grs. Rosæ Conf., 1 1-4 grs. }
{ Saponis Pulv., 1 1-4 grs. Ol. Carui. }

Aloes, Dilute (Dr. Hall Dinner Pill), 4 grs
{ Aloes Barb., Pulv. Ext. Glycyrrh., }
{ Saponis Pulv., Theriacæ, aa, 1 gr. }

Aloes, Socotrine, B. P., 5 grs.
{ Aloes Soc. Pulv., 2 1-2 grs. Rosæ Conf., 1 1-4 grs. }
{ Saponis Pulv., 1 1-4 grs. Ol. Myristicæ. }

Aloes and Asafœtida, B. P., 5 grs
{ Aloes Soc. Pulv., Saponis Pulv., }
{ Asafœtida. Rosæ Conf., aa 1 1-4 grs. }

Aloes and Iron, B. P., 5 grs
{ Aloes Barb. Pulv., 1 gr. Cinnam. Co Pulv., 1 1-2 grs. }
{ Ferri Sulph., 3-4 gr. Rosæ Conf. 1 3-4 grs. }

Aloes and Myrrh, B. P., 3 grs
{ Aloes Soc., 1 gr Myrrha, 1-2 gr. }
{ Crocus, 1-4 gr. Rosæ Conf., 1 1-4 grs. }

Aloes and Myrrh, B. P., 5 grs
{ Aloes Soc., 1 2-3 grs. Myrrha, 5-6 gr. }
{ Crocus, 5-12 grs. Rosæ Conf., 2 1-12 grs. }

Aloes and Nux Vomica.
{ Pulv. Aloes Soc., 1 1-2 grs. Ext. Nucis Vom., 1-2 gr. }

Aloin, 1-10, 1-4, 1-2, 1 gr.

These pills of aloin (the active principle of aloes) were first introduced by us to the medical profession several years ago, and rapidly became a favorite, since they represented the aperient properties of aloes without the griping tendencies common to that drug. In a recent article (*Lancet*, Jan. 1, 1887) on the management of Simple Constipation, Sir Andrew Clark says: "If the use of drugs is unavoidable, try the aloin pill. Take one half an hour before the last meal of the day, or just so much of one as will suffice to move the bowels in a natural way the next day before breakfast. If it should produce a very copious motion, or several small motions, the pill is not acting right; only a fourth, or even less, should be taken for a dose. When the right dose has been found it may be taken daily or on alternate days until the habit of defecation is established. Dr. Clark uses aloin in combination with nux vomica, iron, myrrh, etc. (See Aloin, or Aperient No. 4.)

Aloin Compound.
{ Aloin, 1-8 gr }
{ Ext. Belladonnæ, 1-4 gr. }
{ Podophyllin, 1-8 gr. }

Aloin and Strychnine.
{ Aloin, 1-5 gr. Strychnina, 1-60 gr. }

A tonic laxative granule, prescribed for chronic constipation where a painless peristaltic action is desired. Especially useful in the treatment of the aged. Since introducing this formula to the profession, and adding the granule to our list, our sales have been exceedingly large. We have received numerous letters and reports from physicians, speaking in the highest terms of the results of their administration, and thanking us for introducing this granule to their notice. Always specify "McK.&R."

The reputation of Gelatine-Coated Pills has been created by our manufacture.

"Pills of exceptional merit for originality and for excellence of manufacture."—Medical Times and Gazette.

"McK.&R." CAPS: PILLS.

According to Formulas of the British Pharmacopœia and other Standard Authorities.

Aloin, Strychnine and Belladonna.
{ Aloin, 1-5 gr. Strychnina, 1-60 gr. }
{ Ext. Belladonnæ, 1-8 gr. }

A tonic laxative granule, prescribed where a painless perisaltic action is required.

Aloin or Aperient, No. 1.
{ Aloin, Ext. Nucis Vom., }
{ Ferri Sulph., Saponis pulv., }
{ Myrrhæ pulv., aa, 1-2 gr. }

This formula is recommended by Sir Andrew Clark in the treatment of simple constipation, and is mentioned in the *Lancet* for Jan. 1, 1887.

Aloin or Aperient, No. 2.
{ Aloin, Ext. Nucis Vom., }
{ Ferri Sulph., Saponis pulv., }
{ Myrrhæ pulv., aa, 1-8 gr. }

This pill is one-quarter the strength of the one mentioned above, but is of the same formula and is recommended by the same authority. It is to be given in cases where "No. 1 is too strong."

Aloin or Aperient, No. 3.
{ Aloin, Ext. Nucis Vom., }
{ Ferri Sulph., Myrrhæ pulv., }
{ Saponis pulv., Ipecac. pulv., aa, 1-8 gr. }

This pill, the third one of the series, will be found of value where No. 2 (above) is indicated. *provided there is no special weakness of the heart.*

Aloin or Aperient, No. 4.
{ Aloin, Ext. Nucis Vom., }
{ Ferri Sulph., Myrrhæ pulv., }
{ Saponis pulv., Ext. Bellad., aa, 1-8 gr. }

In cases in which the above formulas appear to act in a more or less irregular manner, and belladonna appears to be indicated, the pill will be found of service.

The above four formulas, which have been graduated to form, as near as possible, a "natural" aperient, were recommended by Sir Andrew Clark.

Anti-Cholera.
{ Pulv. Capsici, Asafœtida, }
{ Pulv. Pip. Nig., Camphora, aa, 1-3 gr. }
{ Pulv. Opii, 1-12 gr. }

Anti-Dyspepsia, (Fothergill).
{ Strychnina, 1-20 gr. }
{ Pulv. Ipecac., 2-3 gr. }
{ Pulv. Piper nig., 1 1-2 grs. }
{ Ext. Gentianæ, 1 gr. }

Recommended by the late Dr. Fothergill in his article on "Atonic Dyspepsia."

Anti-Nervous or Valerian.
{ Zinci Oxidum, Ext. Valerian., aa, 2-3 gr. }
{ Ext. Hyoscyami, 2-3 gr. }

Arsenious Acid, 1-20 gr.
Arsenious Acid, 1-50 gr.
Asafœtida, U.S.
{ Asafœtida, 3 grs. Pulv. Saponis, 1 gr. }
Asafœtida Comp., B. P., 5 grs
{ Asafœtida, Galbanum, Myrrha, aa 1 3-7 grs. }
{ Theriaca, 5 7 gr. }
Atropine, 1-300 gr.
Atropine, 1-100 gr.

B

Blue Mass, B. P., 1, 2, 3, 5 grs.
Blue Mass, Colocynth and Hyoscyamus.
{ Massa Hydrarg., 1 gr. }
{ Ext. Hyoscy., 1 gr. }
{ Ext. Colocynth. Co., 3 grs. }

C

Calcium, Sulphide, 1-10 gr.
Calcium, Sulphide, 1-4 gr.
Calcium, Sulphide, 1-2 gr.
Calcium, Sulphide, 1 gr.

Recommended by Dr. Ringer in 1874. We added these pills to our list about twelve years ago, at the request of a physician, who used them with great success in scrofula, glandular enlargments, etc. Dr. Simeon Snell gives a record of several cases of strumous ophthalmia treated with sulphide calcium, which recovered very rapidly under its use. These cases are given in *N. Y. Medical Abstract*, p. 74, 1882. Dr. Samuel Sexton (Am. Otol. Soc.), speaking of this salt in diseases of the mastoid, to reduce inflammation, recommended a low dose.

Calomel, Colocynth and Hyoscyamus.
{ Hyd. Subchlor., 1 gr. }
{ Ext. Coloc. Co., 3 grs. }
{ Ext. Hyoscy., 1 gr. }

Calomel Comp., B. P. 5 grs.
{ Hyd. Chlor. Mite, 1 1-8 grs. Res. Guaiac. Pulv., 2 1-4 grs. }
{ Antim. Sulph., 1 1-8 grs. Ol. Ricini, 1-9 gr. }

Calomel and Opium.
{ Hyd. Subchlor., 2 1-2 grs. }
{ Opii Pulv., 1 gr. }

Camphor and Hyoscyamus.
{ Camphora, Ext. Hyoscyami, aa, 1 gr. }

Camphor, Mono-Bromated, 2 grs.
Cannabis Indica Extract, 1-4 gr.
Cannabis Indica Extract, 1-2 gr.

This extract has been esteemed as one of the most valuable medicines in the Materia Medica, but its usefulness has been greatly limited by the varying and uncertain character of the extracts furnished by manufacturers. Our extract is made in porcelain vessels, from the best selected flowering tops, and we have each lot tested therapeutically before sending it out, so that the Profession can depend upon its action with almost as great a certainty as they can on that of Morphine. "It (Ext. Cannab. Indic.) has been found to cause sleep, to allay spasms, to compose nervous inquietude and to relieve pain; it differs from opium, in not diminishing the appetite, checking the secretions, or constipating the bowels. The complaints in which it has been specially recommended are neuralgia, gout, rheumatism, tetanus, convulsions, hysteria, mental depression, and depression and delirium tremens."

Capsicum and Hyoscyamus (Anti-Crave.)
{ Capsici Pulv., 1 1 2 grs. }
{ Ext. Hyoscyami, 2 1-2 grs. }

This "Anti-Crave" Pill is useful in the treatment of dipsomania as a substitute for stimulants.

Cascara Sagrada Extract, 3 grs

This extract is prepared in our own laboratory, and can be relied upon. Useful in habitual constipation. Dr. Prosser James, in *Medical Press*, London, April 25, 1883, speaks of its use in the case of a gentleman with laryngeal catarrh. He says: "He had hemorrhoids, and the intestinal canal was so sensitive that very small doses of any aperient produced extreme distress. It acted once, producing a colored stool of soft consistence without griping." Dr. M. M. Tehelzoff studied the influence of this drug parallel with that of rhamnus frangula, rhubarb, and aloes; as a cholagogue he places Cascara Sagrada in the highest place after rhubarb. In general he considers it a useful remedy for dyspepsia, jaundice, and similar affections of the digestive organs. Several observers have testified to the value of Cascara Sagrada for certain forms of rheumatism. For these cases it has been used successfully, both alone and with salicylic acid.

Cathartic Compound, U. S. P., (Purgative.)
{ Ext. Jalapæ Pulv., Ext. Coloc. Co. Pulv., 1 1-8 grs. }
{ Hyd. Subchlor., aa, 1 gr. Gambogiæ Pulv., 1-4 gr. }

Codeine, 1-2 gr.
Colocynth Comp., B. P., 4 grs.
{ Coloc. Pulpæ Pulv., 4-5 grs. Potass. Sulph., }
{ Aloes Barb. Pulv., 1 3-5 grs. Ol. Caryoph. }
{ Scammon. Virg. Pulv., 1 3-5 grs. }

Colocynth Comp., B. P., 5 grs.
{ Coloc. Pulpæ Pulv., 1 gr. Potass. Sulph., }
{ Aloes Barb. Pulv., 2 grs. Ol. Caryoph., }
{ Scammon. Virg. Pulv., 2 grs. }

Colocynth Comp. and Blue Mass, 5 grs.
{ Pil. Coloc. Comp., B.P., 3 grs. }
{ Massa Hydrarg., 2 grs. }

Colocynth Comp. and Calomel, 5 grs.
{ Ext. Coloc. Co., 4 grs. }
{ Hyd. Subchlor., 1 gr. }

Colocynth and Hyoscyamus, B. P., 5 grs.
{ Pil. Coloc. Comp., B.P., 3 1-3 grs. }
{ Ext. Hyoscy., 1 2-3 grs. }

Colocynth Comp. Ext., B. P., 5 grs.
{ Coloc. Pulpa, Saponis Pulv., }
{ Ext. Aloes Soc., Cardam. Sem. }
{ Res. Scammon., }

Conium Comp., B. P., 5 grs.
{ Ext. Conii, 4 1-6 grs. }
{ Ipecac. Pulv. 5 6 gr. }
{ Theriaca, }

Copaiba Compound.
{ Cubebæ pulv., 2 grs. }
{ Massa Copaibæ 1 gr. }
{ Ferri Sulph. Exsic., 1-2 gr. }
{ Terebinth. Venet., 1 1-2 grs. }

Copaiba and Oleo-Resin Cubeb, 5 grs.
{ Pil. Copaibæ, 3 grs. }
{ Oleo-resina Cubeb., 2 grs. }

Corrosive Sublimate, 1-30 gr.
Corrosive Sublimate, 1-20 gr.
Corrosive Sublimate, 1-10 gr.
Croton Chloral, 1 and 2 grs.
Croton Oil, 1-2 gr.
Cubebs, Oleo-Resin, with Soda.
{ Oleo-Resina Cubebæ, 1 gr. Sodii Bicarb., 1-8 gr. }

Digitalin, 1-60 gr.

D

Diuretic or Buchu.
{ Ext. Buchu, Potassii Nitras, 1 gr. }
{ Scillæ pulv., 1-2 gr. }

E

Eclectic or Podophyllin.
{ Res. Podophylli, 1-8 gr. }
{ Res. Leptand., Res. Juglandis, aa, 1-16 gr. }
{ Res. Cimicif., 1-32 gr. Ol. Capsici, — }

Elaterin, 1-20 gr.

Owing to the great variation in strength, Elaterium has been classed among the unreliable medicines. Its active principle, known as *Elaterin*, is a white crystalline substance, purging powerfully in doses of 1-20 to 1-6 of a grain. It has the advantage over Elaterium of uniformity.

Emmenagogue (Mutter).
{ Ferri Sulph. Exsic., 1 1-2 grs. }
{ Thus. Amer., 1 1-2 grs. }
{ Aloe Soc., 1-2 gr. }

Ergotin, 3 grs.

Each pill contains the active principles of 30 grains Ergot of Rye, or 30 minims of the liquid or fluid extract.

This Ergotin is prepared with great care from the best quality of fresh, selected Ergot of Rye, and it contains, in the most potent form, all the active constituents of the drug.

This form presents many advantages over the ordinary liquid preparations; it is more reliable and uniform in its effect, and is more acceptable to patients when administered, and is especially desirable in neurotic treatment.

Euonymin, 2 grs.
Euonymin, 3 grs.
Euonymin Comp.
{ Euonymin, 1 gr. Ext. Nucis Vom., 1-8 gr. }
{ Aloin, 1-4 gr. Ext. Hyoscyami, 1 gr. }
{ Ext. Rhei, 1 gr. }

Expectorant or Squill.
{ Scillæ pulv., 1-2 gr. }
{ Digitalis pulv., Ipecac. pulv., aa, 1-4 gr. }
{ Ext. Lactucarii, 1 gr. }

F

Ferruginous (Blaud), 3 grs.
{ Ferri Sulphas, }
{ Potassii Carb., aa, P. Æ. }

Ferruginous (Blaud), 5 grs.
{ Ferri Sulphas, }
{ Potassii Carb., aa. P. Æ. }

H

Hydrastine (White Alkaloid,) 1-2 gr.

I

Iodoform, 1 gr.
Iodoform and Iron.
{ Iodoformum, }
{ Ferrum Redactum, aa, 1 gr. }

Ipecac. Powdered, 1-4 gr.
Ipecac. Powdered, 5 grs.
Ipecac. Compound (Ipecac. & Opium), 5 grs.
Ipecac. and Squill, B. P., 5 grs.
{ Ipecac. Co. Pulv., 3 grs. }
{ Scillæ Pulv., Ammoniaci Pulv., aa, 1 gr. }
{ Theriaca. }

Iron Arseniate, 1-8 gr.
Iron Carbonate, B.P., 5 grs.
Iron by Hydrogen (Quevenne), 1 gr.
Iron by Hydrogen (Quevenne), 4 grs.
Iron Iodide (Blancard), 1 gr.
Iron and Quinine Citrate, 2 grs.
Iron, Quinine and Strychnine.
{ Ferrum Redactum, Quininæ Sulph., aa, 1 gr. }
{ Strychninæ, 1-60 gr. }

THE READY SOLUBILITY of "McK.& R." Pills easily proved by the administration of a dose of the Cathartic Comp. U. S. P. (Purgative.)

In Ordering be careful to Specify "McK.& R."

"McK.&R." CAPS: PILLS.

According to Formulas of the British Pharmacopœia and other Standard Authorities.

L

Laxative, Vegetable (Improved Cathartic.)
{ Res. Podoph., Ext. Coloc. Co. Pulv., 1 gr. } { Ext. Hyosc., Jalapæ Pulv., } { Ext. Taraxi., aa, 1-4 gr. Res. Leptand., aa, 1-2 gr. } { Ol. Menth. Pip. }

M

Manganese, Bin-oxide, 2 grs.
Mercury, Bin-Iodide, 1-16 gr.
Mercury, Proto-Iodide, 1-20. 1-16, 1-8 gr.

By a method of our own, we now obtain this salt absolutely pure, free from the red iodide or metallic mercury; and in a *perfectly impalpable powder*. The irritation of the stomach so frequently caused by the ordinary salt is no doubt due to impurity, such as red iodide, and is not observed in the use of the "McK.&R." proto-iodide. Scrofula and scrofulous syphilis. Should never be given at the same time with iodide of potassium, which converts it into bin-iodide.

Mercury, Proto Iodide, 1-4 gr.

Absolutely pure Proto-Iodide of Mercury should be a bright yellow impalpable powder, entirely free from globules of mercury or particles of bin-iodide.

The title "Viride" should be discarded, and "Flavum" substituted as a correct description of the chemically pure product of precipitation found in the "McK.&R." Pills containing 1-20, 1-16, 1-8 and 1-4 grain.

An examination will show the importance of specifying "McK&R." Pills in preference to any other

Mercury with Chalk, No. 1 (Hutchinson).
{ Hydrarg. cum creta, 1 gr. } { Confect. Rosæ, q. s. }

Mercury with Chalk, No. 2 (Hutchinson).
{ Hydrarg. cum creta, 1 gr. } { Dover Pulv., 1 gr. } { Ext. Gentianæ, q. s. }

Mercury with Chalk, No. 3 (Hutchinson).
{ Hydrarg. cum creta, 1 gr. } { Ext. Nucis Vom., 1-4 gr. } { Ferrum Redactum, 2 grs. } { Ext. Gentianæ, q. s. }

This preparation of mercury is the one preferred by Dr. Jonathan Hutchinson; see his lecture on "Abortive Treatment of Syphilis," an abstract of which will be sent to any physician on application. Dr. Hutchinson lays stress on the following points: 1. Early treatment of the disease; 2. Continuous treatment for six months or more; 3. Small doses.

Morphine, Muriate, 1-8 gr.
Morphine, Muriate, 1-4 gr.

N

Narcotic Extracts (Brown-Sequard).
{ Ext. Hyoscyami, Ext. Conii, aa, 2-3 gr. } { Ext. Ignat. Amaræ, Ext. Opii, aa, 1-2 gr. } { Ext. Aconiti, 1-3 gr. } { Ext. Cannabis Indicæ, 1-4 gr. } { Ext. Stramonii, 1-5 gr. } { Ext. Belladonnæ 1-6 gr. }

Nitro-Glycerin, 1-200, 1-100, 1-50 gr.

Dr. M'Call Anderson, mentioning the exhibition of this drug in angina pectoris, says: "My experience of the comparative methods of nitrite amyi and nitro-glycerin is, that while the latter acts more slowly, it seems to be more permanent beneficial." Dr. W. E. Greene says, after giving several cases of heart disease: "In this new agent we have a very powerful measure in disease of the heart. Not only palliative, but in many cases actually curative." Dr. Wm. A. Hammond gives this drug in migraine and epilepsy with good results. The above facts are taken from the *New York Medical Abstract*, pp. 278 and 379, 1881, and p. 104, 1882. Dr. Oscar Jennings has used nitro-glycerin conjointly with sparteine in the treatment of the opium habit. See pill sparteine sulph. Nitro-Glycerin is also known under the name of trinitine.

O

Opium, Powd., 1 gr
Opium and Camphor.
{ Opii pulv., 1 gr. Camphora, 2 grs. }

P

Pepsin, Pure, Concentrated, 1 gr.
Each Pill equal in digestive properties to 5 grs. Sacch. Pepsin.
Phosphorus, 1-100 gr.
Phosphorus, 1-50 gr.
Phosphorus, 1-30 gr.

Many of the Phosphorus Combinations given here are formulas used by Dr. Kirby, of the Royal College of Surgeons, England.

Phosphorus and Iron.
{ Phosphor. Pur., 1-50 gr. } { Ferrum Redact., 2 grs. }

Phosphorus, Iron and Quinine.
{ Phosphor. Pur., 1 100 gr. } { Ferri Carb. (Vallet), 1 gr. } { Quininæ Sulph., 1 gr. }

Phosphorus and Nux Vomica.
{ Phosphor. Pur., 1-50 gr. } { Ext. Nucis Vom., 1-4 gr. }

Phosphorus, Nux Vomica and Iron.
{ Phosphor. Pur., 1-50 gr. } { Ext. Nucis Vom., 1-4 gr. } { Ferri Carb., 1 gr. }

Phosphorus and Quinine.
{ Phosphor. Pur., 1-50 gr. } { Quininæ Sulph., 1 gr. }

Phosph., Quinine, Iron and Strych.
{ Phosphorus, 1-50 gr. } { Ferrum Redact., 2 grs. } { Quininæ Sulphas, 1 2 gr. } { Strychnina, 1-60 gr. }

Phosphorus and Valer. Zinc.
{ Phosphor. Pur., 1-50 gr. } { Zinci Valer., 1 gr. }

Picrotoxin, 1-80 gr
Podophyllin, 1-8 gr.
Podophyllin, 1-4 gr
Podophyllin, 1-2 gr
Podophyllin Comp.
{ Res. Podoph., 1-2 gr. } { Ext. Coloc. Co., 2 grs. } { Ext. Hyoscy., 1 gr. }

Q

Quinine, Bi-Sulphate, 1-4 gr.
Quinine, Bi-Sulphate, 1-2 gr.
Quinine, Bi-Sulphate, 1 gr.
Quinine, Bi-Sulphate, 2 grs.
Quinine, Bi-Sulphate, 3 grs.
Quinine, Bi-Sulphate, 4 grs.
Quinine, Bi-Sulphate, 5 grs.
Quinine, Sulphate, 1-4 gr.
Quinine, Sulphate, 1-2 gr.
Quinine, Sulphate, 1 gr.
Quinine, Sulphate, 2 grs.
Quinine, Sulphate, 3 grs.
Quinine, Sulphate, 4 grs.
Quinine, Sulphate, 5 grs.

Bi Sulphate of Quinine is much more soluble than the sulphate, the latter requiring seven hundred parts of water to dissolve it, while the BI-SULPHATE DISSOLVES IN TEN PARTS.

McKESSON & ROBBINS have paid much attention to the subject of putting Quinine into pills, in a condition approaching that of a solution, and have at last succeeded in the BI-SULPHATE OF QUININE PILLS, and offer the same to the profession, confident that they will stand any test for solubility and prompt action.

Quinine Comp. (Anti-Malarial.)
{ Quininæ Sulph., Acid. Carbolic., } { Cinchonid. Sulph., aa, 1 gr. Menth. Camphor., aa, 1-8 gr. } { Acid. Arsenios., 1-40 gr. Capsici Pulv., 1-4 gr. }

This pill is largely prescribed in the most severe malarial districts of America with remarkable results.

R

Rhubarb Comp, B. P., 5 grs.
{ Rhei Pulv., 1 1-4 grs. Myrrhæ Pulv., 5 8 gr. } { Aloes Soc. Pulv., 1 gr. Theriaca, 1-2 gr. } { Saponis Pulv., 5 8 gr. Ol. Menth. Pip. }

Rhubarb Comp. and Blue Mass, 5 grs.
{ Pil. Rhei Comp., 3 grs. } { Pil. Hydrarg., 2 grs. }

Rhubarb, Ipecac. and Soda.
{ Pulv. Rhei, Sodii Bicarb., aa, 1 gr. } { Pulv. Ipecac., 1-8 gr. }

S

Salicylic Acid, 2 grs.
Salicylic Acid, 5 grs.
Salicylic Acid Comp.
{ Acid. Salicylic., 5 grs. } { Morphinæ, Muriat 1-8 gr. }

Soap Comp., B. P., 5 grs.
{ Opii Pulv., 1 gr. } { Saponis Pulv. 4 grs. }

Squill Comp., B. P., 5 grs.
{ Scillæ Pulv. 1 gr. Ammoniaci Pulv., } { Zingiber. Pulv., 4-5 gr. Saponis Pulv., aa 4-5 gr. } { Theriaca. }

Strophanthus, 1-20, 1-4 gr.

These granules are equal, respectively, to one drop and five drops of the one in 20 tincture proposed by Dr Fraser. As compared with digitalis, Dr. Fraser found that Strophanthus exerts a much more powerful action on the heart, and a less powerful action on the blood-vessels It has been used with good results in cases in which the prominent symptoms were cough, dyspnœa, palpitation, and œdema of the feet and legs. The drug is well worth a trial in cardiac diseases.

This pill is largely prescribed in the most severe malarial districts of America with remarkable results.

Strychnine, 1-30 gr.
Strychnine, Nitrate (Dipsomania). 1-60 gr.

Luton, Giacomini, Magnus, Huss, Morey, Lecuye, Jaillet, Minoz, Dujardin-Beaumetz, and Amagat have recommended Strychnine in the treatment of the alcohol habit. During the last few years several Russian physicians have reported their experience with the drug, with the best results. The craving for liquor is said to be entirely destroyed either at once, or very soon after the use of this drug is begun.

T

Tonic-Laxative (Fothergill).
{ Quininæ Sulph., 2-3 gr. Strychnina, 1-30 gr } { Ferrum Reduct., Ext. Bellad., aa, 1-4 gr. }

V

Valerianates Iron, Quinine and Zinc.

W

Warburg Tincture.
Each pill represents 1 fluid drachm of the tincture.
Warburg Tincture without Aloes.
Each pill represents 1 fluid drachm of the tincture.
Warburg Tincture without Aloes.
Each pill represents 2 fluid drachms of the tincture

Z

Zinc, Phosphide, 1-4 gr.
Zinc, Phosphide, 1-2 gr.
Zinc, Valerianate, 1 gr.

Special Combinations of 3,000 or more Pills made and Capsuled to order for Hospitals and large consumers at special quotations.

Address: McKESSON & ROBBINS, 91 Fulton Street, New York.

"McK.&R." Caps. Pills are prepared expressly for the use of Physicians and Surgeons and to be dispensed in Prescriptions.

In Ordering be careful to Specify "McK.&R."

REFERENCE TO THE GELATINE-COATED PILL.

ORIGINATED BY McKESSON & ROBBINS, 1870.

"The process of coating the McK.& R. pills with gelatine not only takes away the disagreeable appearance, odor, and taste, but forms a hermetical coating about the medicine, protecting it from atmospheric moisture, and thus preventing deterioration. This fact enables one to purchase them in larger quantities without fear of change of their composition. They are not affected by climate, changes in temperature, or variations in the hygrometic conditions of the atmosphere; and drugs which otherwise oxidize rapidly may be preserved in this state for years. The gelatine coating is perfectly transparent, and very thin, so that it requires but half a minute in the mouth to dissolve it. Being of ovoid shape, they do not resemble ordinary coated pills; they are swallowed with the greatest ease where the above-mentioned are rejected. The slippery character which the coating assumes after having been taken into the mouth renders the pill almost imperceptible to the sensitive mucous membranes of the soft palate and fauces, and this, we think, contributes greatly to the ease of administration." (Reprinted from the *Obstetric Gazette*, U.S.A.)

During the past few years many imitations of our Pills, some of them quite inferior, have been put upon the market, and these, we regret to say, are sometimes dispensed on prescriptions when our Pills have been desired; and as the preference for our Capsuled Pills is increased by microscopical and chemical as well as therapeutical tests of quality, we would most earnestly and respectfully request Physicians to specify "McK.&R." on all prescriptions and orders to their retail druggists, and to order, when circumstances will admit, in original vials of 25 to 100 Pills each. Very respectfully, McKESSON & ROBBINS, 91 FULTON ST., NEW YORK.



McK.& R. COMPOUND STEARATE INSUFFLATIONS.

The Compound Stearates, introduced recently by McKESSON & ROBBINS, are now presented with confidence, to the Medical Profession at large, as powders, which are remarkable for their mollescence when applied to anoint or protect diseased conditions of the skin and mucous membrane.

They are adhesive, and act as grateful vehicles in which drugs may be administered locally.

Desirable as adjuvants in insufflations and antipruritic as dusting powders, they can be used to cover and protect the surface of the skin, without soiling the clothing, and offer a very profitable field for therapeutic investigation, where the frequently rancid oleates and ointments, or the ordinary soluble and non-adhesive dusting and other powders for the skin and mucous membrane, are not desirable.

In bottles, containing 1 oz. by weight (from 4 to 6 ozs. by measure).

STEARAS COMPOSITUS.

McK. & R. Compound Stearate of Zinc.
McK. & R. Compound Stearate of Zinc with Alum.
McK. & R. Compound Stearate of Zinc with Ammonium Muriate.
McK. & R. Compound Stearate of Zinc with Aristol.
McK. & R. Compound Stearate of Zinc with Aromatized Iodoform.
McK. & R. Compound Stearate of Zinc with Balsam Peru.
McK. & R. Compound Stearate of Zinc with Bismuth Salicylic.
McK. & R. Compound Stearate of Zinc and Bismuth Subgallate.
McK. & R. Compound Stearate of Zinc with Boric Acid.
McK. & R. Compound Stearate of Zinc with Camphor.
McK. & R. Compound Stearate of Zinc with Chrysarobin.
McK. & R. Compound Stearate of Zinc with Cocaine.
McK. & R. Compound Stearate of Zinc with Eucalyptol.
McK. & R. Compound Stearate of Zinc with Europhen.
McK. & R. Compound Stearate of Zinc with Exalgine.
McK. & R. Compound Stearate of Zinc with Gallacetophenone.
McK. & R. Compound Stearate of Zinc with Ichthyol.
McK. & R. Compound Stearate of Zinc with Iodoform and Boric Acid.
McK. & R. Compound Stearate of Zinc with Naphthalin.
McK. & R. Compound Stearate of Zinc with Menthol.
McK. & R. Compound Stearate of Zinc with Pyoktanin.
McK. & R. Compound Stearate of Zinc with Resorcin.
McK. & R. Compound Stearate of Zinc with Rhubarb.
McK. & R. Compound Stearate of Zinc with Salicylic Acid, Mild.
McK. & R. Compound Stearate of Zinc with Salicylic Acid, Medium.
McK. & R. Compound Stearate of Zinc with Salicylic Acid, Strong.
McK. & R. Compound Stearate of Zinc with Salol.
McK. & R. Compound Stearate of Zinc with Sanguinarine Nitrate.
McK. & R. Compound Stearate of Zinc with Sulphur, Precipitated.
McK. & R. Compound Stearate of Zinc with Sulphur, Sublimed.
McK. & R. Compound Stearate of Zinc with Tannic Acid.
McK. & R. Compound Stearate of Zinc with Tar.
McK. & R. Compound Stearate of Zinc with Thymol.
McK. & R. Compound Stearate of Zinc with Zinc, Chloride.

McK. & R. Compound Stearate of Alumiuum.
McK. & R. Compound Stearate of Copper.
McK. & R. Compound Stearate of Manganese.
McK. & R. Compound Stearate of Mercury.

N.B.—The McK.& R. Compound Stearate of Zinc, also with Boric Acid, may be used as antipruritics, and for all purposes for which lycopodium, starch, talc and other toilet powders are employed, with the advantage of resisting moisture much more effectually.

THE CHEMIST AND DRUGGIST

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THE CHEMIST AND DRUGGIST is supplied regularly to every member of the following Societies:—PHARMACEUTICAL SOCIETY OF IRELAND, SOUTH AFRICAN PHARMACEUTICAL ASSOCIATION, MIDLAND PHARMACEUTICAL ASSOCIATION OF NEW ZEALAND, CENTRAL ASSOCIATION OF NEW ZEALAND, OTAGO PHARMACEUTICAL ASSOCIATION, PHARMACEUTICAL SOCIETY OF QUEENSLAND, PHARMACEUTICAL SOCIETY OF SOUTH AUSTRALIA, PHARMACEUTICAL SOCIETY OF WESTERN AUSTRALIA, and TASMANIAN PHARMACEUTICAL SOCIETY.

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PRIZES FOR POSTCARDS.

WE propose to distribute a sum of from two to five guineas (according to the number and quality of the postcards sent in competition) for comments on the supplements issued with this number of THE CHEMIST AND DRUGGIST.

Any chemist, chemist's assistant, or chemist's relative is at liberty to compete. Comments must be sent in on postcards between this date and August 15, and every competitor may send in as many postcards as he thinks fit.

By "comments" we mean remarks on the supplements from a chemist and druggist's point of view. They may be critical, epigrammatic, laudatory, poetic, acrostical, or commercial. They are not to be abusive. Only one supplement is to be commented upon on each postcard.

Summary.

A TALE by Mrs. Riddell is one of the features of this number.

THE Chicago Exhibition is not likely to be a success financially.

THE present position of the cinchona-bark trade is discussed in our Editorial columns.

THE Cape Pharmacy Board has submitted its first report, showing the work done during 1892.

THE largest pharmacy in the world is Ferrein's, in Moscow. We give particulars and illustrations of it.

WE devote another article to the arrangements of the economic departments of the Imperial Institute.

THE Government analyst of New South Wales sends us a description of a blowpipe which he has devised.

MR. BURROUGHS communicates his impressions of Davos Platz as a health-resort, with some particulars of pharmacy there.

WE give in our Personal column a portrait of Mr. Conyngham, the Queensland chemist, who is in the Australian cricket-team.

MESSRS. HELBING AND PASSMORE make some useful suggestions in regard to fractional distillation as applied to the testing of oils.

WE continue our comments upon the aspects of American pharmacy, in the present instance dealing with the educational and examination arrangements.

HASHISH, or Indian hemp, is a forbidden article in Egypt, but is used, nevertheless. Dr. Mackenzie describes its peculiarities and chemical properties.

MR. E. J. MILLARD gives further particulars regarding the quality of commercial Goa powder, and suggests amendments of the B.P. characters and tests.

IN continuation of our review of the forthcoming United States Pharmacopœia we deal in this issue with the new characteristics and tests given therein for essential oils.

THE work of the wholesale drug-trade of London a century ago is referred to in the article on page 146. This article also contains interesting particulars of essential-oil distillation.

CANDIDATES at the recent pharmaceutical examinations in London and Edinburgh complain of the treatment they received. A successful candidate tells what he got in the practical department.

IN a facetious paper on "The Incomplete Pharmacist" Mr. Walter MacEwan probes some of the weak spots in the pharmaceutical armour, and sketches the genesis of the modern chemist's assistant.

THE death is reported of Mr. Shrubsole, a well-known Chester chemist and geologist. We give further particulars regarding the personal characteristics and work of the late Mr. Thomas Smith and Mr. H. D. Fuge.

FOR some time we have had on foot an inquiry regarding the imitation by French houses of English proprietary medicines; and on page 158 will be found some results of this inquiry. We give facsimiles of the labels used by the imitators.

IN the present week's report of the World's Fair we give notes of an interview regarding the status of women-pharmacists in the States, and describe some of the more important chemical and pharmaceutical exhibits in the American section.

IN the South of London a chemist has been summoned, under the Sale of Food and Drugs Act, for selling soda-water containing only $1\frac{1}{2}$ grain of the bicarbonate. The Magistrate was satisfied, without calling upon Professor Attfield and Mr. Carteighe, who were present as witnesses, that the pharmacopœial soda-water is not what the public want as a beverage, and accordingly dismissed the case.

English News.

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

Pain-killer as a Beverage.

Mr. John Bell, a fishmonger, of Carlisle, narrowly escaped poisoning a few days ago. He had been suffering from toothache, and procured a bottle of "Pain-killer." A teaspoonful of the liquid in a quantity of water ought to have been used as a lotion, but Mr. Bell was given a tablespoonful, which he swallowed. He became unconscious soon after taking the medicine, which caused a burning sensation. Several doctors were summoned, and, an emetic having been administered, the sufferer gradually came round, and is now recovering.

Passing Bad Money at a Chemist's.

At the Surrey Assizes at Guildford, on July 20, before Mr. Justice Grantham, John Smith, aged 43, was indicted for knowingly uttering counterfeit coin at the shop of Mr. Nicholls, chemist, 32 Church Street, Croydon, and at certain public-houses, on July 5. The prisoner pleaded guilty, and admitted a previous conviction for the same offence. On the day named the prisoner and his wife entered the Crown and the Victory public-houses, where they were served with refreshments. At the Crown the barmaid detected that the coin the prisoner tendered was a bad florin, but at the Victory he succeeded in passing a counterfeit florin. Then he went to the shop of Mr. Nicholls, where he purchased a cake of soap and a teething-powder and received change for another bad florin. A plain-clothes constable, who was in the next compartment to the prisoner at the Crown, followed him to the Victory, and thence to the chemist's shop, where he and his wife were arrested, the latter being subsequently discharged. The prisoner, who has served two terms of penal servitude and several sentences of hard labour, was now sent into penal servitude for ten years.

Dividing the Profits.

The Sanitas Company (Limited) have declared an interim dividend at the rate of 10 per cent. for the six months ended June 30 last, payable on and after September 1.

Jeyes' Sanitary Compounds Company (Limited), of 43 Cannon Street, London, E.C., announce an interim dividend at the rate of 10 per cent. per annum for the six months ending June 30, payable forthwith.

Messrs. W. B. Fordham & Sons (Limited) have declared an interim dividend of 7½ per cent., free of income-tax, for the first half of the current year. This is the uniform rate of interim dividend paid since the incorporation of the company.

The United Alkali Company will pay an interim dividend on the ordinary shares of 6*s.* per share, and on the preference shares of 7*s.* per share, on August 30.

Alleged Theft from the Medical-battery Company.

At the Liverpool Police Court, on Saturday, John Scott Anderson was charged with stealing 22*l.* and a cheque for 3*l.* 3*s.*, the property of his employers—the Medical-battery Company, Bold Street, Liverpool—and John Finnegan, publican, was charged with receiving the cheque and 16*l.* of the money stolen. The evidence showed that about four weeks ago the Medical-battery Company opened a branch depôt in Bold Street, and Anderson was employed there as bill-distributor, and he also had charge of the premises. On Friday evening he took a girl to the shop, and broke open a cash-box and stole the money in question. They afterwards went to Finnegan's house and stayed there until 1 o'clock. The girl told Finnegan's brother and sister that Anderson had stolen the money; however, notwithstanding that, Finnegan took 16*l.* of the money and the cheque. Anderson wanted the girl to go to Newcastle, but she went and informed the police of the matter. Finally, both prisoners were remanded.

A Satisfactory Drug-contract.

At the last meeting of the Merthyr Board of Guardians Mr. John Rogers asked whether the contract for drugs, given to Messrs. Burgoyne & Co., was going on satisfactorily. The Clerk replied that before the contract was formally signed the doctor had ordered the drugs from local chemists, but since then, as far as he knew, everything had gone on all right. The Master said he had heard no complaints.

A Chemist's Wine-licence Refused.

Before the Reigate Magistrates last week, Mr Hubbard, on behalf of Mr. Cross, chemist, Redhill, applied for a medicated-wine licence for use till the next Brewster Sessions, when, he said, his client would apply for one in the ordinary way. The licence was refused, the Bench considering that it should be applied for in the usual way at the Sessions.

Collecting an Account.

The Magistrates at Douglas, Isle of Man, were called upon last week to hear a charge brought by Mr. A. E. Woodward, a chemist, against William Cowell, for assault. It appeared from Woodward's evidence that the defendant went into Woodward's shop and asked for payment of an account. Woodward said it was inconvenient to pay, and asked him to wait. They both left the shop together, and as they walked defendant said, "Look here, Al., I must have this money," and lifting his fist struck Woodward twice on the shoulders and back. Plaintiff fell, and in falling tore his trousers. The defendant said he was vexed at not getting the money as promised. He gave Woodward a shove, not a blow, and the plaintiff tripped over the edge of the parapet and fell. He did not strike plaintiff several times as Woodward stated. The Bench were of opinion that the matter was trivial, and dismissed the suit with costs.

Another Two.

We have from Liverpool a long account of the botanical rambles of two members of the Liverpool Pharmaceutical Students' Association, as a sequence to a paragraph printed last week. This is too much. The former paragraph was a hint; this one is a warning.

Suicide by Carbolic Acid.

At Preston, on Monday, a canal boatman, named Vickers, was drinking in a public-house, and refused to go home with his wife. She took some carbolic acid, and died soon afterwards. Deceased, who was only 21 years old, had been married five years.

Scotch News.

A Trip South.

An informal deputation from the North British Branch has been in London during the past week in regard to pharmaceutical matters. Mr. Laidlaw Ewing, on his return from a continental tour, stayed a few days discussing, amongst other matters, the examination accommodation in Edinburgh, and he found Mr. Maben, of Hawick, and Mr. Rutherford Hill (assistant secretary) before him, their business being a study of the examinations as they are at present conducted in London.

The West Highlands.

Mr. Samuel Lawrence, chemist, of Oban, has just issued an "Oban Visitors' Guide" for the tourist season, 1893, with particulars of tours, local information, and numerous advertisements.

Golf.

The midsummer competition of the Edinburgh Pharmacy Athletic Club has been held at Largo. The Scratch Prize was won by Mr. P. W. Wilson. First handicap, Mr. Jas. D. Horsburgh; second handicap, Mr. A. J. Dey; third handicap, Mr. A. J. Simpson. Some good foursomes were played in the afternoon, and altogether a most enjoyable day was spent.

French Pharmaceutical News.

(From our Paris Correspondent.)

The Pharmacy Bill.—The Senate has been prorogued without having definitely passed the new Pharmacy Bill which was sent up to it from the Chamber of Deputies last week.

A Mother's Despair.—A young woman, aged 20, who lived with a pharmacist's assistant in the Boulevard Barbis, Paris, recently lost her child, a baby of eight months. Her grief was so intense that it affected her mentally. On Friday last she made use of a temporary absence of the pharmacist to commit suicide by swallowing the contents of a bottle of mercury he had left on a sideboard. The poor girl died shortly afterwards in great pain.

Boiled Milk as a Children's Food is, according to Dr. Fayel, harmful, and consequently to be avoided, though in this opinion he differs with the majority of his colleagues. One of the principal arguments advanced is that the tuberculosis microbe is only destroyed at a temperature of 110° to 115° C., whereas milk, either pure or adulterated with water, never rises above 100° C. Dr. Fayel has experimented on the subject at the laboratory of the Physiological Institute at Caen, and he finds, in addition, that in giving boiled milk to infants an aliment is supplied of which the density has been increased, and which is consequently rendered more indigestible.

The Paris Dental School.—The Council of Superior Instruction held a meeting in Paris last week with a view of taking such measures as may be necessary for placing dentistry on a proper footing in accordance with the law promulgated last year. The Council seems somewhat embarrassed as to the correct course to pursue, one of the prescriptions of the law being the suppression of the existing dental schools, the oldest of which have been established fifteen years. This is felt to be unnecessary, if not positively unjust to gentlemen who have had the onerous task of managing the schools in question. The result will probably be that they will be incorporated under the new arrangement, though conflicting elements exist which render this far from easy. Under the new law a dentist must hold a degree of either doctor of medicine or surgeon-dentist, the latter being a new diploma. As matters stand, it appears that French medical men as a body have still to learn that dentistry is no longer an art to be disdained or classed with that of the chiropodist, and the Council of Superior Instruction can find no better scope for its energies than in endeavouring to arrive at an enlightened decision on the subject.

Foreign and Colonial News.

Sale of a Botanical Library.—The extensive and valuable library of the deceased botanist Dr. Karl Prantl has been purchased by a Munich firm of dealers in books and curios, who are gradually disposing of the collection.

"Protected" *v.* "Free" Pharmacies in Hungary.—It is said that the pharmaceutical-concession system which now exists in Hungary is to be abolished in favour of the common-sense plan of allowing qualified men to open business wherever they please.

Sunday-closing in Switzerland.—The Council of the Swiss canton of Bale City has ordered that from July 11 the Bale pharmacies are to be closed by turns every second Sunday from midday until 9 P.M. This question of Sunday-closing has perturbed the Bale chemists periodically in the past.

A Pharmaceutical Quarcentenary.—The quarcentenary of the birth of Philipp von Hohenheim, better known to fame as Paracelsus (Theophrastus Paracelsus Bombastus), is to be celebrated at Einsiedeln, in Switzerland (where the house in which the notorious alchemist saw the light is still standing), on December 17 next.

The Fittings of Turkish Pharmacies.—The Sultan of Turkey has issued an order decreeing that all Constantinople pharmacies must in future be in possession of a very complete specified outfit of pharmaceutical appliances, the cost of which is estimated at about 100*l.* T. It is said that there are a large number of pharmacies in Stamboul now the total value of which—lock, stock, and barrel—does not amount to 15*l.*

Hungarian Chemists Organising.—A Chemical Society is to be founded in Hungary. The committee charged with its establishment recommend that for the present it shall not assume the status of a separate corporation, but constitute itself a branch of the Hungarian Society for Natural Science. One of the principal objects of the new organisation is the publication of a Hungarian chemical journal, to appear monthly.

South Carolina Druggists and Liquor-selling.—On July 1 the State of South Carolina took control of the sale of liquors within its borders. Druggists are now compelled to secure their supplies from the State, under the strictest of regulations. The Governor calculates that there will be nearly a million gallons of liquor sold by the State dispensaries, and that the net profit will not be less than $500,000 for the first year, while better liquor will be "dispensed."

German Chemical-works in Russia.—The Moscow branch of the Aniline-dye Works at Höchst, in Germany, made a net profit of 146,057 roubles last year on a capital of 880,000 roubles. The Russian branch of the Continental Solvay Works, operating under the style of "Lubimov, Solvay & Co.," pays a dividend of 14 per cent. on a share-capital of 3,000,000 roubles; while the Moscow branch of the Baden Aniline and Soda Works (capital 1,210,000 roubles), after deducting 39,800 roubles for interest, has remitted to the parent factory the amount of 169,600 roubles as net profit for 1892.

The Indian Saltpetre-industry.—Fears are entertained in India that the saltpetre industry, which is represented in the exports of the country to the extent of about forty-four lacs of rupees a year, may become extinct in consequence of the decreased demand for gunpowder owing to the introduction of more efficient substitutes for that explosive. The trade with the United States might still survive, as there is a large demand for saltpetre in the Republic as a preservative for fish and meat in the canned-provision business. But even in this case the saltpetre-industry of India would be seriously curtailed.

Spanish Pharmacists on Strike.—Compelled thereto by the financial distress of the Treasury, the Spanish Minister of Finance recently issued an order that every time a sale was made in a Spanish pharmacy, no matter what the importance of the transaction, a revenue stamp of 10 centimos (1*d.*) must be attached to the article delivered. It was pointed out to his Excellency that in many cases, especially in poor quarters, the revenue tax would equal or exceed the average amount of the transaction, but the Minister remained obdurate, and announced that the tax would come into force on July 1. Many pharmacists thereupon resolved to close their shops altogether until the tax should be withdrawn, whereupon the Minister gave notice that in case of such action he would order the military pharmacies to open their doors to the public at large. Pharmaceutical news from Spain travels slowly, and we have not yet heard the sequel of the affair.

The Perfumery-trade in the East.—The Austrian Consul in Shanghai reports that until 1887 there was no sale whatever in China for Austrian toilet-soaps and perfumery. In that year the Vienna soapmaker, Gottlieb Taussig, sent his son upon a long tour throughout the East to make his firm's goods known in those parts of the world, and since then travellers from the same firm have repeatedly visited China, probably not altogether without result, as Hong Kong now imports about 1,000*l.*, and Shanghai about 1,500*l.* worth of perfumery direct from Austria every year, the former place taking the cheaper, the latter the finer qualities. Recently the Japanese have begun to compete in the soap-trade. They imitate the European soaps exactly in appearance, labels, and packing, and think nothing of pirating any man's name or trade-mark. The quality is, of course,

very poor, but cheapness is with the Chinese the first consideration.

The Adulteration of Cutch.—Cutch is an important article in the trade of Burmah, the exports averaging from twenty to twenty-five lacs annually in value; but of late the Chinese have been doing their best to discredit the trade in the markets of Europe by wholesale adulteration. Cutch is mainly used (outside Burmah, where the native takes it medicinally or eats it in *pan*) for tanning purposes, and the Chinese adulterate it by adding extracts from the barks of lein tonkyan and panya, which contain a considerable amount of tannin, but nevertheless render the cutch exported spurious and utterly worthless. The adulteration is easily recognised by local merchants thoroughly accustomed to the article, but it has been successfully passed on to consumers in other countries by unscrupulous vendors. The Forest Department and the Chamber of Commerce in Rangoon are both highly interested that the purity and good fame of Burmah cutch shall be beyond question, and the Chief Commissioner has now, on their earnest recommendation, proposed to levy a heavy tax on the manufacture of extracts used for adulteration.

Chemical Accidents in Germany.—A serious accident occurred recently at the chemical-works of Schuster & Wilhelmy, in Reichenbach. A few minutes before 6 P.M. a cast-iron boiler, weighing 3 tons, in which a batch of tartaric-acid material had just been boiled, and which was located in a building in the centre of the works, exploded with a loud report, the force of the pressure being such as to project the boiler about 100 feet high in the air. The huge piece of ironwork fell upon the roof of an adjacent building used for the storage of chemical manure and destroyed the greater part of the building. The chemist of the factory, Dr. Kobeck, who was in the neighbourhood of the boiler at the time of the explosion, was killed on the spot. Two factory hands were also killed, and two others severely wounded. Another accident, fortunately not attended with loss of life, took place a few days before the one described, in the chemical laboratory of Rostock University, during an experimental preparation of hydroxylamine by Dr. Schröter and Pharmacy-Student Fromm. At first the distillation proceeded normally under 40-mm. pressure, but in the middle of the process the pump ceased to operate, and was replaced by a smaller one, the pressure being correspondingly raised. Suddenly, at a temperature of 84° C., the hydroxylamine exploded violently, both operators receiving several painful, though not dangerous, wounds from the pieces of broken glass scattered about.

Alleged Boycotting of a Swiss Pharmacist in Davos Platz.—Apotheker Amann, who has carried on business for some time at the health resort of Davos-am-Platz, in the Swiss canton of Grisons, has sent a letter to the Swiss *Pharmaceutical Journal* accusing the medical body of Davos of a grave and scandalous abuse of its powers. According to Herr Amann, the Medical Association of Davos, a body which exercises almost unlimited power in the district (which but for the influx of pulmonary patients would be a forgotten mountain hamlet), suggested to the Communal Council some time ago the establishment of a communal pharmacy. Apotheker Amann, of course, protested against this proposal, and succeeded in procuring its rejection. From that time, he complains, he has been a marked man. The Medical Association, by promises of support, induced Apotheker Hausmann, of St. Gallen, to establish a rival pharmacy in Davos, and as soon as this was opened—in October of last year—the medicos, it is alleged, of one accord began to make a dead-set at the unfortunate Amann. Patients received their prescriptions in closed envelopes bearing the printed address of Mr. Amann's rival; all servants, hotel-porters, guides, &c., were strictly prohibited from carrying any orders to Amann's pharmacy; and rumours were assiduously set afloat that Amann's drugs were inferior, his prices too high, and his dispensing habits unreliable. Apotheker Amann's property has now become valueless, his customers are gone, and he is compelled to leave Davos with his family, a ruined man—thanks to the merciless opposition of the noble medical profession. Such is the pharmacist's story. It is to be hoped, for the sake of the honour of the Davos medical men, that they will be able to show that it is untrue.

The Cape Colony Medical Council.—The first annual report of the Cape Colony Medical Council has been published for presentation to the Colonial Parliament. A considerable portion of the time of the Council has been occupied in the framing of regulations for medical practitioners, dentists, and midwives and trained nurses, which have been published in the *Government Gazette*. The important duty of preparing a revised and corrected list of medical practitioners, dentists, certificated midwives, and trained nurses, for entry in the register to be kept in the office of the Colonial Secretary, has also been performed by the Council. The question as to the diplomas, certificates, or other proofs of competence to be accepted as sufficient by the Council has also involved much consideration and correspondence; and efforts have been made to ascertain the standards of competence in professional knowledge required by the qualifying bodies both in Great Britain and other countries, so as to place the Council in a position to safeguard the colony from an influx of imperfectly-educated practitioners. In terms of the Medical and Pharmacy Act of 1891, under the provisions of which the Council was constituted, licences are issued to medical practitioners and dentists by the Colonial Secretary upon the recommendation of the Council. In concluding its report the Council invites the attention of Parliament to certain provisions of the Act, which are of such a nature as to be detrimental to the interest of the public as well as an infringement of the pre-existing rights of individuals. Thus the effect of sections 22 and 23 is to debar medical men in isolated districts from selling even simple household drugs such as are required for the treatment of minor ailments and may be found in every home. This restriction presses as a great hardship on all persons living at a distance from a chemist's shop; and is the more indefensible in view of the fact that the medical practitioner who dispenses his own prescriptions only is required by section 22 to pay the same licence fees as a chemist, and is in all respects a competent person to be entrusted with the sale of medicines. Again, a case has come before the Council during the year in which a duly qualified medical practitioner, who has specialised in dentistry ever since he qualified in medicine and surgery, but who unfortunately omitted to take the necessary steps under section 17 to secure registration as a dentist, has found himself debarred from admission to the Register of Dentists, although in the Council's opinion in every way highly qualified and competent to perform dental operations. To meet such cases as this, some modification of the 18th section of the Act, the Council thinks, is desirable.

DEED OF ARRANGEMENT.

The following deed of arrangement with creditors has been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1867. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptcy, and there is no provision in the Act making any of these arrangements binding upon dissenting creditors.

Walker, William. 2 Carrington Road, Flixton, chemist. Trustee, Henry Oldfield, 192 Mottram Road, Hyde, gentleman. Dated July 10; 1893; filed July 12, 1893. Unsecured liabilities, 286*l.*; estimated net assets, 200*l.* Deed of arrangement whereby debtor covenants to pay creditors their respective debts on December 25, 1893, with interest at 5 per cent. from date hereof or so long as any money remains due, by equal half-yearly payments on June 24 and December 25 in every year, secured by assignment to trustee of the business of a specially-prepared charcoal manufacturer, with stock in trade, &c., upon trust, to carry on the same under the style of William Walker & Co., for the benefit of creditors generally; with the proviso that upon repayment of debts, capital, and interest any time within six years from date hereof the whole of the business shall then be reassigned to debtor. The following are scheduled as creditors:—

	£	s.	d.
Abbott, James Hy., Heaton Mersey	100	0	0
Elliott & Elliott, Manchester	12	0	0
Leach, Robt., Manchester	10	0	0
Oldfield, Hy., Hyde	100	0	0
Stacey, Henry, Werneth	30	0	0
Warrington, Dr., Congleton	20	0	0

Legal Reports.

Vinegar Cases.

At the Jarrow Police Court, on July 20, Anne Halliday, the keeper of a small shop, was charged with selling adulterated vinegar. The county analyst certified that the article was not true vinegar. It had been made from pyroligneous acid and coloured.

Mrs. Halliday, who was not defended, pleaded that she paid the best price for the vinegar. She had expected it to be pure, and sold it as such in good faith. It was just as she had received it. She had sent a sample of it since to the man from whom it was bought, but he had not replied to her letter.

Mr. Johnson, J.P., said it was evident from Mrs. Halliday's statements that she did not sell the article knowing it to be impure. He also made some remarks in her favour, seeing she had destroyed the impure article as soon as she knew it was adulterated. In view of this a small fine of 2*s.* 6*d.* and costs was imposed.

Spratt's Poultry-meal.

In the Chancery Division of the High Court, on July 21, Mr. Warmington, Q.C., moved, before Mr. Justice Kekewich, in an action of Spratt's Patents (Limited) *v.* Burgess, to restrain the selling of poultry-meal not manufactured by the plaintiffs as theirs. Mr. Ribton, for the defendants, said he could not deny that a sale had been made in the absence of the defendants by one of their servants, for which they were legally responsible, if not morally, and he was therefore willing to submit to a perpetual injunction and pay the costs. Mr. Warmington objected to any statement of fact being made unless the evidence were read, and his Lordship expressed his opinion that such statements were irregular. The defendant either consented to the perpetual injunction or he did not. Mr. Ribton thereupon said he submitted to the order, which was made accordingly.

A Mineral-water Case.

In the case of Ellis *v.* Evans, which came before Mr. Justice North, in the Chancery Division of the High Court of Justice, on July 21, the plaintiffs sought to restrain the defendant from passing off or enabling others to pass off soda water, ginger-beer, and other aërated waters not of the plaintiffs' manufacture as and for the plaintiffs' manufacture, by the use of labels so arranged and contrived as to lead to the belief that the contents of the bottles were the manufacture of the plaintiffs. An injunction to restrain the infringement of trade-mark was also asked for. The plaintiffs, R. Ellis & Sons, who carry on business at Ruthin, North Wales, have acquired considerable reputation for their goods, and they alleged that the defendant, Peter Evans, who had formerly been in their employ, but had now set up business as a manufacturer of mineral-waters at Ruthin, had adopted labels calculated to deceive. This the defendant strenuously denied. Mr. Moulton, Q.C., and Mr. Sebastian appeared for the plaintiffs, Mr. John Cutler for the defendant. The whole of the day was occupied in reading affidavits made by various traders for the respective parties.

Mr. Moulton explained that the plaintiffs' mineral waters had acquired a very large reputation, and they were obtained from a special spring at Ruthin, which belonged to them solely.

Mr. Justice North: Not a soda-water or ginger-beer spring, I suppose?

Mr. Moulton said no. The spring did not supply the ginger-beer and soda-water ready-made, but it supplied the water for their manufacture. The defendant was advertising "Evans's Celebrated Soda-water, Ruthin," and as he had only just set up in business his mineral waters could not possibly be celebrated. He submitted that upon the evidence he had made out a clear case of an attempt by the defendant to pass off his goods for the plaintiffs'.

Mr. Cutler, for the defendant, denied any such attempt, and submitted that the defendant's labels were no more like the plaintiffs' than they were like the labels of other makers.

At this point the hearing was adjourned.

The hearing was resumed on Saturday, when Mr. Cutler called the attention of the Court to the labels of various manufacturers, for the purpose of showing that blue was the colour commonly used for soda-water labels. Complaint had been made by the plaintiffs of the defendant using the word "celebrated." The majority of manufacturers, he maintained, described their goods as celebrated. The arrangement of colours in the defendant's label was much more like the arrangement of colours in the labels of other manufacturers than the plaintiffs'. Also, no adverse presumption could arise against the defendant for using the word "aromatic" on his ginger-ale labels, for it was the common practice of the trade. He should submit that in all respects the defendant was only doing something he was entitled to do, and taking something he was entitled to take, because it was common to the trade.

The learned counsel had not concluded at the rising of the Court, and the further hearing of the case was adjourned.

The Sale of Paregoric.

At the Rowley Regis Police Court, on July 20, Mr. George Hadley, grocer, High Street, Blackheath, was summoned at the instance of Mr. Morris, the inspector under the Sale of Food and Drugs Act, for selling paregoric not of the nature and quality demanded. Mr. Morris said the case was the first of the kind he had brought before the Magistrates. It was important that only competent persons should sell the article. It was essential that paregoric should contain opium, it being a necessary ingredient, and without it it could not be called paregoric. Evidence was given by witnesses that paregoric was asked for, and 3*d.* an ounce was charged. The defence was that the article was not sold as paregoric, but paregoric elixir. The purchaser—a young woman—was shown a bottle labelled "Paregoric Elixir," and was asked if that was what she meant, and she replied in the affirmative. Defendant said no grocer or general dealer had any power to sell paregoric, and he, not being a chemist, refused to sell it. Mr. Morris said the article sold was not recognised. The Magistrates held they could not convict, and Mr. Morris withdrew the summons. Mr. Bassano (the Chairman of the Magistrates) advised the defendant not to sell the article again, and he said he would give up its sale.

Soda-water Prosecution.—Case Dismissed.

At the Lambeth Police Court on Friday last, before Mr. Biron, Q.C., Mr. E. Compigné, chemist and druggist, of 262 Camberwell Road, S.E., was summoned, under the Sale of Food and Drugs Act, at the instance of the Camberwell Vestry, for having supplied a syphon of soda-water to their inspector, the same not being of the nature and quality demanded by the purchaser.

Mr. Ivor Bowen appeared for Mr. Compigné, and Mr. Marsden represented the Vestry. Mr. T. H. Idris, Mr. Michael Carteighe, and Professor Attfield were in court to give evidence, but were not called.

Inspector Groom said that on June 13 last he called at the defendant's premises and asked for a bottle of soda-water. The defendant sold him a syphon having on it a label showing the contents as "soda-water." He told the defendant that he purchased it for the purpose of analysis. He now produced the public analyst's report, which stated that the beverage analysed contained only $1\frac{1}{2}$ grain of bicarbonate of soda to the pint. According to the British Pharmacopœia it should have contained 30 grains.

Cross-examined by Mr. Bowen: In the preface of the Pharmacopœia he saw that it was stated to be a book "containing a list of medicines and compounds." A large quantity of syphons similar to that which he purchased were standing on the floor of the defendant's shop.

Mr. Marsden, for the prosecution, said he could not call the analyst, as he was away, and asked for the case to be adjourned in order to bring scientific evidence as to what soda-water should be, being sold by a chemist.

Mr. Bowen objected to this, as he was going to call as a witness the editor of the Pharmacopœia to prove that when

soda-water was ordered as medicine by a doctor the prepared effervescent solution to be given was that mentioned in the Pharmacopœia. If persons asked for soda-water——

The Magistrate: They do not want 30 grains to the pint.

Mr. Bowen: Certainly. If a customer came to the shop and asked for medicinal soda-water he got it; but the ordinary soda-water of commerce was that containing a very small quantity, because a larger quantity would make it nauseous to the taste. As a matter of fact, after the inspector had visited the shop, Mr. Compigné had ordered to be prepared for him some soda-water up to Pharmacopœia strength, and had supplied it to his customers, with the result that he had received a large number of letters complaining of the change.

The Magistrate agreed and said he would dismiss the case, but could not allow costs against the Vestry, as it was a public body carrying out what it considered its duty.

Business *v.* Friendship.

In the Liverpool County Court on July 23, Messrs. Ayrton & Saunders, wholesale chemists and druggists, Duke Street, Liverpool, sued Mrs. F. J. Machin, of Camden Street, for 12*l.* 10*s.*, commission at 2½ per cent. on the sale of her late husband's business, as a chemist and druggist, at Huyton. The plaintiffs alleged that the defendant applied to them to find a customer, and they told her that the commission would be 2½ per cent. Defendant's case was that nothing was said about commission, and that, her husband having been an old customer, the plaintiffs acted for her out of friendship. The jury found for the defendant. Mr. W. F. Taylor appeared for the plaintiffs, and Dr. O'Feely for the defendant.

Bankruptcies and Failures.

Re Firminger & Behrend, 4 Mincing Lane, E.C., Colonial Brokers and Merchants.

At a sitting of the London Bankruptcy Court held last week, before Mr. Registrar Hope, these debtors attended for their public examination. The accounts filed under the failure show a total indebtedness of 12,231*l.* 18*s.* 6*d.* (unsecured, 5,817*l.* 9*s.* 10*d.*), and assets valued at 2,247*l.* 17*s.* 11*d.*

Mr. H. Brougham, Official Receiver, attended from the Department to conduct the examination; Mr. E. Cooper Willis, Q.C., appeared for Mr. Firminger; and Mr. F. Cooper Willis for Mr. Behrend.

Replying to Mr. Brougham, the debtor Firminger stated that previous to 1884 he had traded in partnership with a Mr. Howard under the style of Firminger & Howard. The capital of the firm was then between 3,000*l.* and 4,000*l.*, but upon Mr. Behrend joining the firm further capital was introduced by them both, and later, when Mr. Howard retired in 1891, the accounts showing a deficiency of about 600*l.*, they each introduced further sums to the capital account. Differences arose between them in September, 1892, which culminated in the appointment of a receiver and manager in Chancery to wind up the business, which was being done at the date of the receiving-order. That appointment was made upon the application of Mr. Behrend, and to the stoppage of the business in that manner, combined with bad debts, claims for breach of contract, and losses by Stock Exchange speculations, witness ascribed the failure of the firm. They had sustained losses by speculating in produce, including pepper and shellac, owing to the contracts not being completed. Some of such losses were ascertained since the stoppage of the business and the appointment of the receiver and manager. The deficiency on shellac alone amounted to 1,100*l.* Some of the transactions were of an ordinary business nature, but others were purely speculations in differences. The unsecured liabilities included a sum of 3,000*l.* due to Mr. Behrend in respect of capital advanced by that gentleman. The business yielded a profit up to June, 1889, but bad debts and legal expenses had since absorbed almost all the profits that had been made. Witness was now employed by a brother-in-law to manage the business, but he had no proprietary interest at the present time.

Mr. Behrend, in the course of his evidence, said he caused the business to be suspended because he saw it was in a state of insolvency. He had incurred certain losses by speculating on the Stock Exchange, but they were met by his wife's relations, and there were no outstanding liabilities on that behalf at the present time.

Both debtors were allowed to pass their examination.

Re Herbert James Gibbins (trading as James B. Gibbins & Co.), 72 Mark Lane, E.C., Chemical-merchant.

At a sitting of the London Bankruptcy Court, held before Mr. Registrar Hope, on July 20, an application was made by Mr. H. Brougham for an adjournment of the public examination of the debtor.

The Official Receiver reported that the proceedings were instituted last May by a creditor, and accounts were subsequently filed by the debtor showing total liabilities 8,080*l.*, and a deficiency of 2,540*l.* Since the receiving-order was made the debtor had been arrested and charged at the police court with conspiracy to defraud, and until those proceedings had been disposed of the public examination could not conveniently be taken.

The learned Registrar ordered the hearing to be postponed until November next.

Re Arthur George Rickarby, 22 Bath Street, Abingdon, Pharmaceutical Chemist.

At the Oxford Bankruptcy Court, on July 20, this bankrupt appeared for re-examination. The Official Receiver intimated that he had no more questions to put to debtor, whose evidence was read and the examination closed by the Registrar.

Gazette.

PARTNERSHIP DISSOLVED.

Sarson, H., Sarson, H. L., and Sarson, P. S., vinegar-merchants, Catherine Street, City Road, E.C., under the style of Henry Sarson & Sons; as far as regards H. Sarson.

THE BANKRUPTCY ACTS, 1883 and 1890.

Adjudications.

Fulleylove, William, Netherton, Worcestershire, drug-stores proprietor.

Kane, Thomas James, Cowthorpe Road, Wandsworth Road, S.W., and Albert Embankment, Lambeth, S.E., late Fentiman Road, Lambeth, and Vauxhall Walk, Lambeth, S.E., surgeon and general medical practitioner.

PHARMACY AND POISON LAWS OF THE UNITED KINGDOM.

An invaluable desk-companion for all chemists and druggists, and a requisite text-book for those preparing for the Minor examination. Published at the offices of The Chemist and Druggist, price 2*s.* 6*d.*; by post, 2*s.* 9*d.* Stocked by most wholesale druggists, from whom it may be obtained at the published price.

There has been published at the office of The Chemist and Druggist in London a neat little book dealing with "The Pharmacy and Poison Laws of the United Kingdom." The volume is primarily intended for the use of candidates preparing for the licentiates' examination of the Pharmaceutical Societiey of Great Britain and Ireland. It furnishes a history as well as an interpretation of the laws of the United Kingdom in relation to the practice of pharmacy, and is carried out on a well-conceived plan. The book also contains a brief account of the pharmacy laws in force in Australasia, Canada, and Cape Colony.—*Northern Whig* (Belfast).

NOVELTIES

PHARMACY, especially the business side of it, is ever changing. Some pharmacists make it their duty—and we think they are right—to master all the details regarding new remedies. Others—and they are certainly more numerous—turn up their CHEMIST AND DRUGGIST to find what is new in the direction of retail pharmacy. It is the men who do neither of these things who are "a day behind the fair." They groan under competition and cutting, wonder what the craft is coming to, and behave themselves generally as aggrieved persons.

We are amongst those who have the belief that pharmacy is not going to the dogs, who think that change does not necessarily mean destruction, and that by conforming to the change much more can be made out of pharmacy. One direction of conforming is to keep up with all that is novel; not only to know what are new by reading about them, but to have the things at hand when they are asked for—to display them on counter and case as evidence of your desire to be first in the field. The British public are as appreciative of these virtues as any, and they are quite open to encouragement in the way of buying.

The object of these notes is to bring under the notice of the trade things that are new, and we leave the enterprising to do the rest by inquiry through the ordinary channels.

RICHARDSON'S SPECIALITIES.

Messrs. John Richardson & Co., Leicester (Limited), are beginning their second "century of enterprise" in good style. We have been examining some of the latest products of their laboratories, and it will be seen they have peculiarities about them which are are deserving of notice by pharmacists. In some respects the most notable preparation is liquor nitritum, a solution intended to replace in prescribing the unstable and unsatisfactory spt. ætheris nitrosi. Liquor nitritum is a solution having a specific gravity of 1·024, and the menstruum appears to be aqueous glycerine. In odour and taste it closely resembles spirit of nitrous ether; in fact, hyponitrous ether is undoubtedly one of the principal constituents, with the aldehydic bodies always obtained in the official process. We find that the solution is double the strength of the B.P. spirit in nitrous constituent—that is, 1 volume has yielded us 14 volumes of nitrous oxide—but we judge, from the researches of Cash and Leech, that the relative activity of the nitrites present predicates a close identity in action between liquor nitritum and spt. ætheris nitrosi. We have also examined the firm's liquor potassii iodinati, in which the iodine is stated to be in "a looser state of combination" than in potassium iodide. That is so; free acids instantaneously liberate the halogen. In elixir ipecacuanhæ the firm have produced an elegant and stable preparation of one of our most useful drugs. It is of the same colour as the wine and of the same strength, and has the great advantage over it that it does not deposit on keeping. It is made with an acidulated-glycerine menstruum. The firm have also introduced an elixir of ferrous iodide, the same strength as the official syrup, but it is made with glycerine and does not deposit. Some time ago we referred to Richardson's flexible gelatine capsules. To this branch they have now added the manufacture of perles, and we have examined samples containing turpentine, chloroform, and apiol. These differ from any we have previously seen in having no sign of a joint, yet they are perfectly spherical. We judge from this that they are made in a similar way to capsules. Still another branch of their industry calls for comment—viz., granular effervescing preparations. The samples submitted to us are preparations of medicines most difficult to unite with the effervescing basis and produce in an unaltered condition. They are antefebrin, caffeine citrate, quinine and iron citrate, ferrous carbonate, sodium salicylate, and lithium citrate. Each of these is a beautiful product, unchanged in colour, and the granules are regular and quickly soluble.

A MUD BRUSH.

The latest addition which Messrs. G. B. Kent & Sons have made in their brush department is a clothes-brush with corrugated vulcanite back-piece to be utilised for the purpose



of taking-off mud-splashes which the ordinary brush is not quite capable of breaking up or dispersing. The style of this brush is shown in the figure.

LORIMER'S HOUSEHOLD COMFORTS.

The growing need on the part of retail druggists to accept the assistance of large packers is well exemplified to us in the variety of goods which are now offered by Messrs. Lorimer & Co., Britannia Row, Islington, N. These include nearly all the simples which are in daily demand, and many compound preparations—syrups, mixtures, pills, effervescing preparations, &c. The firm have sent a large selection of such goods for our inspection, and we can commend them to the attention of chemists as being articles of sound quality, put up in exceedingly tasteful style, and offered on very liberal terms. On the last point chemists may themselves judge from the price-list which is circulated with this issue. There are a few seasonable articles which we may refer to especially. Summer saline is offered under various names and in varied styles of wrappers. We have half-a-dozen styles before us to illustrate how the saline is put up, and these also tell us, from the names of chemists upon them that in India and South Africa the saline is known. We notice a useful and saleable modification of sulphur tablets—sarsaparilla and sulphur—put up in a style that should make it a saleable article. Amongst tonics are quinine-and-iron mixture, compound syrup of hypophosphites, and Parrish's syrup, all irreproachable, and packed very handsomely. We also taste our old favourite, Lorimer's pepsin sauce, and observe that the firm have added more specialities of the same nature. As showing how they keep up with the

progress of therapeutics we find that a gout-saline which they make contains piperazin. The firm have now a large lozenge-making plant in their factory, and are doing very good work in this department. We may add that as Messrs. Lorimer & Co. have a printing-office in their works, they are extremely liberal in regard to putting chemists' own names upon labels and wrappers, and for all departments of the trade they are prepared to quote.

A MENTHOL BOX.

Shirley Brothers, of 105 Whitecross Street, E.C., are introducing a new menthol, which we should think will take the public fancy. It is a flat tablet enclosed in a pretty pink celluloid case. It is withdrawn from the case by lifting a bit of silk ribbon. The lid of the box is labelled in silver, and it may be obtained with or without the A1 trade-mark. It is such a pretty line that many are sure to stock it, especially as a rub of menthol is as good as anything for keeping away mosquitoes.

FROM DUNCAN, FLOCKHART & CO.

In these days of enterprise on the part of provincial wholesale houses, the old Edinburgh firm whose fortune it has been to make chloroform for the world appear to be determined not to take second place in respect to carrying out new ideas. One of the latest evidences of this is the new chloroform which they have placed on the market. Recent controversy in regard to the purity of chloroform has proved one thing conclusively—viz., that chloroform is produced in this country which is pure, and that it can be kept so by a very small percentage of alcohol. The amount of alcohol allowed by the Pharmacopœia specific gravity is a fraction of 1 per cent., and this is quite sufficient to keep it; but it is also officially stated that as much as 1 per cent. of alcohol may be used, and now Messrs. Duncan, Flockhart & Co. propose to adopt this in the new chloroform which the yare sending out. This is called "Duncan's S.G. 1·490," which is its specific gravity. It is made from both rectified and methylated spirit, and is a remarkably pure article. We have failed to distinguish between the two by the smell-test—perhaps the best of any—and otherwise the chloroforms are satisfactory. Messrs. Duncan, Flockhart & Co. have also submitted to us samples of their capsules, plastic pills, and perles. These show that they are progressing in this department since we last had the opportunity of reporting upon their products. Thus the membrane of the cascara-sagrada capsules is made of a substance which does not dissolve in the acid contents of the stomach, so that the full action of the laxative upon the bowel is ensured. The capsules are well shaped, and the same remark applies to the Gregory's powder, Easton's syrup, and Blaud's pill capsules. In the last two cases it is the solid ingredients of the preparations which are encapsuled, so that the dose is provided in small bulk. "Plastic pills" is the name which the firm have given to perles of Blaud's pill with a gummy basis. They are minute, and beautifully shaped. Several other medicaments are similarly put up, and we observe that the firm are also making cachet-pills, these being the pulverulent ingredients of pills enclosed in rice cachets.

FLETCHER'S CONCENTRATED LIQUORS.

have been long enough before the trade to give the prospect of a good competition for the five guineas which the makers (Messrs. Fletcher, Fletcher & Stevenson) offer in this issue for original essays on the practical advantages of using these preparations. In our last Summer Number the same firm offered prizes for formulæ for various popular remedies. The result has been to provide a series of prize formulæ which seem to have caught on, as we observe the mixtures in concentrated form are now being supplied in 5 and 10 gallon casks.

NEW PRICE-LISTS.

Messrs. Blyton, Astley & Co., Eagle Laboratories, Manchester, have issued a "revised and enlarged list," which covers their manufactures—viz., jujubes and pastilles, medicated lozenges, soluble pearl-coated pills, granular effervescing preparations, and packed goods. The last section occupies more than half of the catalogue, and is illustrated. The first part relates exclusively to prices, and is preceded by an introductory note which has the true ring about it. The list is well printed.

Messrs. F. Darton & Co., 142 St. John Street, E.C., are steadily pushing the electrical part of their business, and we see by the new illustrated catalogue which they have issued (ask for "Section C") that they cover practically all departments of electric engineering. The catalogue is a useful one to have.

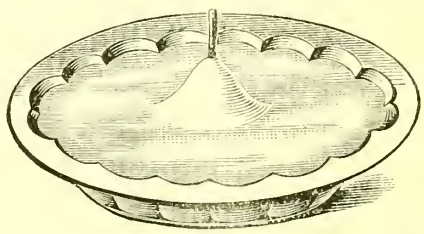
Mr. Hickisson, known the world over as the Daughter of the late John Bond, is quite out-doing himself as a marking-ink maker in the department of rubber-stamps. We notice by his new illustrated price-list that there is scarcely anything in the stamp line which he does not undertake.

BRONNLEY'S MANUFACTURES.

Since we last noticed these manufactures, the firm (Messrs. H. Bronnley & Co., 35 Danbury Street, Islington, N.) have made a number of improvements and innovations which show well their capacity to cope with improved taste in respect to toilet-requisites. Some of the toilet and tooth soaps which they bring under our notice are remarkable for good taste, and as remarkable for the fact that the brands show the firm to be manufacturers for several well-known houses. Messrs. Bronnley & Co. have recently introduced a new tooth-soap in circular cakes and packed in celluloid or metal boxes. The basis of this is good and excellently detergent, and the styles of packing, in the case of this and all other of their manufactures, leaves nothing to be desired. It will be understood that the firm lay themselves out to make soaps and dentifrices for retailers and wholesalers, and that they box, label, and do everything else in regard to them.

KINGZETT'S SULPHUR CANDLES.

The Sanitas Company (Limited) have branched off into a different line of disinfection from that which they have hitherto pursued by placing upon the market the sulphur fumigating-candles, designed by Mr. Kingzett, which are figured in the following illustrations. The first is the cheaper



form, and the second, selling at 1*s.*, is provided with a jacket which can be filled with water. This, Mr. Kingzett believes, has a double purpose, ensuring safety from fire and the efficacy of the sulphurous acid as a disinfecting-agent, "because, being generated in a moist state, the water-vapour

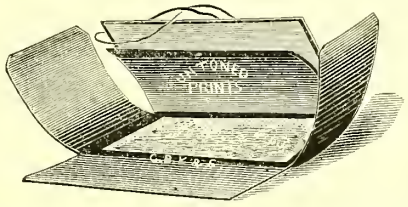
condenses on the articles which require to be disinfected, and the sulphurous acid is brought thereby into contact with them." An ingenious explanation. Apart from that, what



strikes us as peculiar about the candles is the ease with which they take fire on applying a light to the cone on the surface, and then the burning is steady until the very end.

PHOTOGRAPHIC NOTIONS.

Messrs. G. B. Kent & Sons, Great Marlborough Street, W., are introducing to photographers and others an invention of Mr. Arthur Kent in the shape of an improved lantern-slide box. This they manufacture themselves in their special cardboard-box department. The box is neatly covered in black cloth, and will hold fifty slides in cardboard divisions, an arrangement of rubber tubing on the bottom of the box and inside the lid preventing breakages. The advantages which the makers claim for it are that it is light, compact,



well ventilated, may be easily used in the dark, and it has no grooved sides to tear the binding slips off the slides. The firm are also making untoned-print cases. These are black cloth cardboard cases lined with ruby fabric, and are to be used for storing prints until ready for toning and fixing. They are made in four sizes and are selling cheaply. The "Compactum" film-negative storage-album is also a new production of Messrs. Kent & Sons. It contains 100 envelopes, numbered and printed for storing negatives, either on flat celluloid film or Eastman roller film.

ESSETS FLUID.

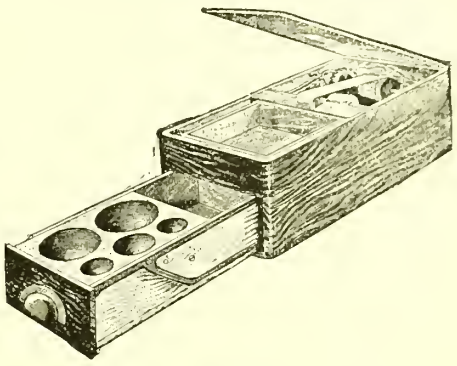
We mentioned a few months ago that Messrs. J. W. Drysdale & Co., 8 Creechurch Lane, E.C., were introducing a new disinfectant. This they are now placing upon the market in bottles for retail and in bulk. The fluid is a syrupy, brownish liquid, which mixes with water, and is non-poisonous. Mr. Boverton Redwood and his analytical associate, Mr. Hailes, report very favourable on the purifying power of the disinfectant, and we understand that they are to control its quality.

A POWDER WEED-KILLER.

The newly-amalgamated firm, Mark Smith (Limited) and the Horticultural and Agricultural Chemical Company, have signalised their united advent in trade by bringing out a powder weed-killer. It is a good idea, as it is only one-eighth the bulk and a fifth the weight of liquid killer, thus saving carriage and all the risks of railway transit. The powder, we are told, dissolves readily in water, and a 1*s.* 6*d.* tin of it makes 25 gallons of weed-killer. There is a future before it.

SELF-CLOSING CHECK-TILL.

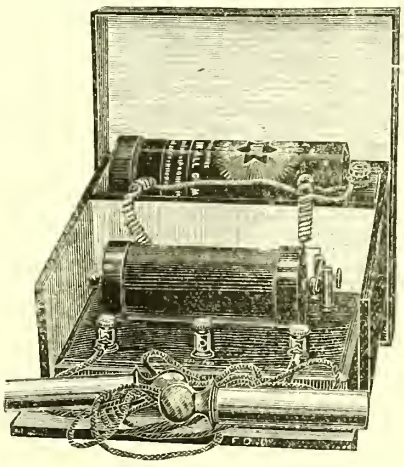
Mr. Thomas O'Brien, 45 Fern Grove, Liverpool, is the maker of a check-till the peculiarity of which is a simple mechanism which prevents its being left open less than 4 inches. From this point it closes automatically, and we think this is an advantage which retailers will appreciate. The



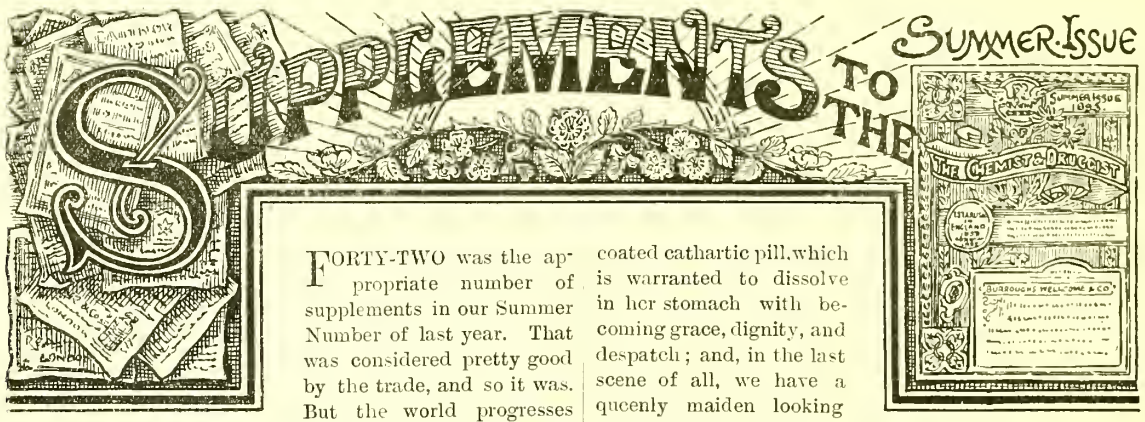
till is made in mahogany, is compact, has all the usual conveniences for checking, and has a handsome appearance upon the counter. The maker offers fourteen days' trial before purchase.

THE "EXCEPTIONAL" BATTERY.

What a nuisance medical batteries are as a rule! They are either charged with some corrosive liquid or poisonous chemical, and are often run out when wanted. We suppose Messrs. F. Darton & Co. had that in view when they designed the "Exceptional" medical coil and dry battery. Its construction is shown in the figure, and we may say that it



consists of an E.C.C. dry cell in front of which is a velvet-covered coil. These are connected with silk-covered wires, and similar wires are attached to the handles. The table upon which the coil rests is provided with holes for the primary and secondary currents, and we find on trial that very good results are obtained from the battery. The dry cell is good for eighty hours' constant or intermittent use and can be replaced for 2*s.* 6*d.* The battery itself costs 10*s.* singly.



FORTY-TWO was the appropriate number of supplements in our Summer Number of last year. That was considered pretty good by the trade, and so it was. But the world progresses ceaselessly, and pharmacy keeps well abreast of the times. And thus it comes to pass that no fewer than forty-five supplements are addressed to the drug-trade in this issue. A more varied collection of announcements — yet all appealing to the same trade—it would be hard to find in any journal. There are serious ones and funny ones; some, severely technical, deal with machinery for use by chemists or the details of intricate analyses; others, relying for their effect upon art, seek to arrest the readers' attention by representations of beauty wrapt in smiles. "Trade is bad" is the general complaint, and of course the drug-trade has suffered from commercial depression in common with all other branches of industry; but it has this advantage over the others—that it possesses greater elasticity, more recuperative power. This is particularly shown in the unprecedented number of supplements in this "Summer" Issue, and it is generally apparent throughout the pages of this issue. A trade that has so many announcements to make, such a profusion of new goods to offer, as the drug-trade does through our pages this week cannot be in such a bad way as pessimists would have it appear. If we had not been compelled by the exigencies of our printing department to close for the press without mercy on Tuesday, we could have presented our readers with several more supplements. We may also mention, without betraying secrets, that more than one firm told us that want of time prevented them from preparing a supplement worthy of the occasion, and that, for that reason alone, they preferred to wait until the next opportunity. Besides being the largest number yet inserted in any single issue of our journal, our supplements are also noteworthy on account of the extreme care which has been taken in the preparation of many of them, showing that the drug-trade has come to appreciate at its true value this opportunity of bringing its goods before the best buyers all over the world, and are sparing no pains to make their announcements as effective as they can.

Anderson & Co., of Murano Place, Edinburgh, give a cut of the factory where they prepare their fluid extracts, infusions, and liquors *in vacuo*. Then follows a price-list of the goods, and a description of the malt and malt and cod-liver-oil extract. Anderson's lacto-maltine is a popular article in Scotland, where it is supplied to various children's hospitals.

Dr. C. J. Ayer & Co., of Lowell, Mass., U.S.A., have a typical American advertisement in the supplements, well illustrated, concise, and to the point. They lead off with their extract from Honduras sarsaparilla, and then follow on with the "Cherry Pectoral." To the coughing gentleman succeeds a lady in the act of gracefully swallowing a sugar-coated cathartic pill, which is warranted to dissolve in her stomach with becoming grace, dignity, and despatch; and, in the last scene of all, we have a queenly maiden looking over a balcony. Her hair, falling to her ankles, represents the virtues of "Ayer's Hair Vigor."

Bennett, Sons & Shears, of 167 Kingsland Road, N.E., have a neat circular illustrative of some of their plant for chemical-works and laboratories. This firm make a speciality of machinery for druggists' use, and particulars are given of the "Auto" still for producing absolutely pure distilled water, and the new "Universal" drug-mill, which will grind anything from linseed to ipecacuanha.

Bewley & Draper (Limited), of Dublin, again show us the world's great writers, led by the immortal Swan of Avon, singing their praises to the "Dichroic" ink, which aided them in the penning of their minds' children. More prosaic representations in favour of the use of the fluid are made overleaf where we read that all the principal banks and public offices have adopted it for their business transactions.

The milk in the cocoanut is again the subject of the supplement in which Bowers Brothers assure chemists that good printing pays, and that it is done best at 89 Blackfriars Road, S.E. The "cocoanut" is rapidly becoming the nucleus of an elaborate legend. Atlas carries it on his shoulders on the frontispiece and does not seem to mind it, for he has only to turn his head and the milk will flow into his mouth. Inside the inquirer will find a story of Samson as an advertiser, illustrated by the exploits of cocoanut demons, and containing many good and sufficient reasons why chemists can reap profit from the effective circulars Bowers Brothers prepare for them.

Bratby & Hinchliffe (Limited), of Ancoats, Manchester, have a two-page circular, one side of which is devoted to a general announcement of the firm's soda-water plants, while the reverse bears a good representation of a bottle, the contents of which chemists will find it to their advantage to assimilate. It will teach them something worth knowing about fruit squash and kola tonic.

S.V.M. and S.V.R. are the mottoes of Jas. Burrough, of the Cale Street Distillery, Chelsea. Special quotations may be had from this firm for rectified spirit of wine of 56° and 60° o.p. as well as of other strengths, while Mr. Burrough also offers methylated spirit and finish at competitive prices. Wines for medicinal use are also in his line, and chemists wishing to put up preparations of their own in which these enter should drop him a note.

Burroughs, Wellcome & Co. give a splendid reproduction of a photograph by Van der Weyde of Miss Lily Hanbury. This will make a fine showcard for the "lanoline" preparations. The same firm also have as an inset a reproduction

of "Helbing's Pharmacological Record," in which interesting facts are laid down on the subject of the constituents of extract of malt and qualitative and quantitative analyses of "tabloids." A critique of toilet soaps also forms the subject of one of the papers in this pamphlet.

Burroughs, Wellcome & Co., in yet another supplement, called the "Columbian World's Fair Number," give particulars of the goods they show at Chicago, and have something to say about the enlargement of their laboratories necessitated by the increase in their business. They also add a price-list of their goods.

Cantrell & Cochrane, of Dublin and Belfast, in a richly-coloured two-page inset appeal to chemists to stock their aromatic ginger ale, a beverage which has had a run of many years' uninterrupted success. Lithia, kali, and seltzer-water, lemonade, and "Sparkling Montserrat" are also among the specialities of this well-known house.

Clarke's "Pyramid" and "Fairy" Light Company (Limited), of Cricklewood, N.W., insert a neatly-illustrated circular, giving full particulars of their popular goods. There is the "Burglars' Horror," recommended by the police as the best safeguard against predatory prowlers; there is the "Fairy" inhaler, the "Bronchitis-kettle" inhaler, and many other quick-selling and profitable accessories to a chemist's business.

Edward Cook & Co., East London Soap-works, Bow, E., have certainly one of the finest supplements in the issue. They have had specially prepared for it a coloured facsimile of their "Riviera" soap label, which is not only a profitable but (as the supplement shows) a most attractive line for counter-display. Particulars of the "Savon de Luxe," the "Hygienic" and the "Antiseptic" soaps are also given.

The inset of Geo. Curling & Co., 30 St. Mary Axe, E.C., is issued to foreign buyers only. Among this old-established firm's specialities are carneina, a liquid extract of meat, citrate of magnesia, and sandal oil and copaiba capsules. The firm also ask for orders for drugs, sundries, confectionery, and perfumery generally.

The Dee Oil Company (Limited), Saltney, Chester, have received a large number of testimonials (of which they print some in their supplement) on the success of their Oleum Deelinæ in skin-affections of every description. Their "Salvo Petrolia," also produced in an edible form, is recommended as an "absolutely genuine paraffinum molle of the very purest form." Disinfectant candles and Warble maggot-ointment are also among the firm's specialities.

J. W. Drysdale & Co., 8 Creechurch Lane, E.C., give particulars of "Essets fluid," a non-poisonous, non-corrosive disinfectant which they are placing upon the market. The fluid, which may be had in 10-oz. bottles or in bulk, is backed up by a large number of scientific and medical certificates.

Wm. Gardner, Southgate Street, Gloucester, has an exceedingly attractive four-page circular illustrating his sifting and mixing machinery. The "Rapid" and the "Indispensable" machines have received a considerable number of awards. The former may be had at prices ranging from 8*l.* up to 35*l.* or more, and it is an advantage that complete particulars of the shipping measurements are given. The "Cabinet" pattern of this machine, which is a still cheaper form, is especially adapted for counter-use.

Robert Gibson & Sons, Carlton Works, Hulme, Manchester (whose supplement appears in our foreign issue only), give a very complete price-list of their medicated and other lozenges (of which they quote 139 varieties), boiled sugars, Throat Hospital lozenges, jujubes, compressed pellets, cachous, and pure sweets. Peppermint lozenges, made with English oil of mint, are one of the firm's specialities.

Wm. Gray & Co., Hull, manufacture ready-mixed and other paints; they are also oil-refiners and white-lead and varnish makers. They claim to be the cheapest firm in that trade, and supply a complete catalogue of their wares (published price, 2*s.* 6*d.*) free to all buyers of 10*l.* worth of their goods.

The Hardy Patent Pick Company (Limited), Sheffield, insert a list giving full particulars and prices of their "Devil" disintegrator and bone-grinder, which obtained the first prize at the Royal Agricultural Society's competitive trials at Plymouth three years back. This machine will grind almost any material to a moderately fine or coarse powder. They also give an illustration of the "Multiple" grinder, which reduces friable, fibrous, and moist materials at one operation.

Hearn, Wright & Co., London, N.E., have a very original four-page inset, which was prepared, we understand, from designs of the senior partner in the firm. This supplement, neatly executed in red and black printing, opens with a four-line couplet (with music) addressed to all downcast druggists, a squad of whom, in the illustration above, appear to be already much cheered by the news. On the back page the author-composer is represented as returning home, where his daughter again treats him to a piano-recital of the lines, which promise to become as famous as "Ta-ra-ra-boom-de-ay," though their glory is likely to live longer. The verse is about Hearn's bottles, which, like the British army and navy, "cannot be beaten."

C. J. Hewlett & Son, 40–42 Charlotte Street, E.C., in an artistically-prepared inset, ask colonial buyers to write for the new special terms upon which the firm now supply tinctures, fluid extracts, &c., in bond, free of spirit-duty. Messrs. Hewlett make the manufacture of tinctures one of the chief departments of their business, but they also call attention to their old-established specialities—liq. santal. flav. c. buchu et cubebæ, and mist. pepsinæ co. c. bismutho.

J. G. Ingram & Son, London, have recently patented a new teat, and appeal to chemists to see that their feeding-bottles and comforters are fitted with it. The first stock of the teats has already been exhausted, which speaks well for their popularity with the rising generation. Ingram's 1,474 patent enema has found a host of imitators—the best proof of its excellence.

Johnsen & Jörgensen, of 5 Savage Gardens, Tower Hill, E.C., represent John Bull as holding up one of their bottles and exclaiming (after careful examination, as is his wont), "Simply perfection!" "Good value" is the motto under which they supply medicine, mineral-water, perfume, confectionery, and other bottles. Their showrooms offer an excellent selection of these, and they are constantly adding new moulds to their already large stock.

Geo. King & Co., of Sycamore Street, London, E.C., give particulars of their malted cooked food for infants and invalids, which is well spoken of by Professor Attfield in a letter of which a facsimile appears in the advertisement.

Leath & Ross, of 9 Vere Street, Oxford Street, W., give information concerning their homœopathic medicines, put up in cardboard cases, bearing a mention of the dose of each medicine upon the case. Illustrations of several of these cases, ranging in price from four to twenty guineas, are also shown. Unfortunately, Messrs. Leath & Ross's printers have only delivered 10,910 copies of their inset, instead of the regulation number. Some copies will therefore be without this supplement, but the firm will be glad to forward,

upon receipt of postcard, a copy of their list to anyone who misses it in his number of the journal.

Loft's Patent Check-till Company (Limited), of 112 Hill's Road, Cambridge, give representations and particulars of their check-tills, which they will send to any chemist for a fortnight's trial before purchase. In addition to owning the check-till, the firm are the patentees of a bottle washing and rinsing machine, which should appeal to many readers.

Lorimer & Co., Britannia Row, Islington, insert a sixteen page price-list containing particulars of their principal preparations. In a circular letter to the trade on the first page of the inset the firm point out that they were the first, twelve years ago, to originate the system of supplying drugs of known formulæ to chemists, elegantly put up, and with the names of their customers attached. During June of this year the firm exported no less than 10,603 bottles of tinctures and spirituous preparations in bond. There is also a graphic coloured representation of the virtues of Lorimer's pepsine sauce.

Lynch & Co. (Limited), 192 Aldersgate Street, E.C., in a four-page supplement, give a concise illustrated price-list of some of their goods, such as clinical thermometers, vaginal douches, the "Upper Ten" crystal perfume-sprays, dispensing-bottles, enemas, and graduated measures. We notice that the prices of Lynch's improved enema have been revised.

McKesson & Robbins, of New York, have an elaborate list of their capsuled pills, which are put up in bottles of 25 and 100 each. They are in a position to supply special combinations of 3,000 or more pills. The circular also contains a reference to the "pulverflator," an instrument designed to prevent the inhalation of aggregations of powders, and to the McKesson & Robbins' compound stearate.

To May, Roberts & Co., 9 Clerkenwell Road, E.C., belongs the distinction of having the largest supplement in this number. It consists of 134 pages, and is a complete illustrated price-list of all the products of the house. The first part of the book contains a description of druggists' sundries, glassware perfume-bottles, surgical and other instruments, &c.; and the second, which for convenience sake is printed on red paper, a price-list of patent medicines and proprietary articles. The firm employ no travellers, and their customers get the benefit of the reduced expenditure which this plan of business entails.

Newball & Mason, Hyson Green Works, Nottingham, follow the example of many others in giving a pictorial representation of their factory—a most imposing building. There has been a run this hot summer, we understand, upon their extract of herbs for the preparation of non-intoxicating beer, as well as upon their extracts and wine essences generally. The firm are among those who cater for customers all over the world, and their success at exhibitions in all parts of the globe testifies to the repute of their goods.

Oppenheimer, Son & Co. (Limited), of 14 Worship Street, E.C., have a four-page supplement, embellished by a fine lithograph, representative of a procession with a triumphal car in mediæval Germany. The herald heading the procession bears aloft the "Palatinoid" banner, and on the next page prices and particulars are appropriately given of the "palatinoid" preparations of the house. These "palatinoids" are now produced by improved machinery, which enables the proprietors to offer them at much reduced prices.

Jas. Pascall, Valentine Place, S.E, has an attractive circular relating to his ever-popular "Golden Maltex." He also makes reference to his equally renowned fruit-tablets, barley sugar, floral cachous, and ladies' silver cachous. To say that the supplement is an attractive one is only another form of stating that it comes from the live Southwark house.

A. & F. Pears (Limited) have their usual four-page inset. On this occasion it does not, however, contain one of those pictures for which the firm have become famous among advertisers, but it is just a chaste and simple announcement, in the national colours, of the firm's special appointment as soap-makers to H.M. and H.R.H. The terms upon which the soap is supplied and a representation of the Oxford Street business premises fill up the two inner pages.

Messrs. John Richardson & Co. (Limited), Leicester, have one of the largest supplements in this issue. It contains, as a kind of centennial celebration, a complete history of the firm, which was established in 1793 as a retail drug-shop in the town of which it is now one of the chief commercial concerns. The supplement is handsomely illustrated by reproductions of photographs, and it contains also the lithographed likenesses of the members of the firm, Mr. J. G. F. Richardson, Ph.D., F.C.S., and his three sons. A perusal of the work (which was written by a practical pharmacist not connected with the firm) will show that its title, "A Century of Enterprise," is well merited.

H. Silverlock, 92 Blackfriars Road, S.E., inserts a pretty coloured circular calling attention to his medical labels for chemists. Mr. Silverlock will be glad to supply estimates for all kinds of printing. Prescription and other books for chemists are among his specialities.

Smith's "Perfect" powder weed-killer, of which Mark Smith (Limited), Louth, Lincs, are the proprietors, is easily soluble in cold water, and a small tin, of which a facsimile is given in the inset, will make 25 gallons of killer. The bulk is therefore small, and there is no trouble with empties.

Smith's Printing and Publishing Agency, 28–32 Hutton Street, Fleet Street, E.C., who cater for chemists' advertising, and pay special attention to commercial and newspaper work, relate the story of one of their customers who was seduced by a rival firm, and the manner in which he became conscious of his mistake.

Spratt's Patent (Limited), Bermondsey, S.E., again appeal on behalf of the canine world. Chemists should apply to Spratt's works for trade terms of meat-fibrine, vegetable dog-cakes (with beetroot), and for the cod-liver oil dog-cakes for anæmia. A price-list of the dog-medicines and of other canine requisites will be found attached to this supplement.

Struthers & Craig, 124 Gloucester Street, Kingston, Glasgow, call attention to their powder mixing and sifting machines, specially adapted for chemists' use, and give some useful illustrations and testimonials of these implements. These machines appear to be economical, and simple.

Tomlinson & Hayward, of Lincoln, have an old-established reputation to maintain for their butter-colouring. They give facsimile labels of this article, as well as of the preservative and the butter-powder. Their trade-mark, representing John Bull and his wife in the demure fashion of forty years ago, is in itself a voucher that their preparations have stood the test of time successfully. A number of testimonials are added.

Jas. Townsend, medical-label printer, Exeter, gives some illustrations of druggists' labels prepared by him, many of which are somewhat out of the usual and very striking. Mr. Townsend is an old friend to the readers of our journal, who have been made familiar with his goods through our advertising pages for many years. He has a reputation to maintain, and he knows it.

The Wandsworth Chemical-works (Limited), Wandsworth, S.W., make a speciality of disinfectants. These include the "Pineotas" series, obtainable in small packets or in bulk, and in fluid, oil, sawdust, and soap form. Carbolic disinfectants, sheep-dips, and other goods are also mentioned, and of each the prices and mode of packing are given.

THE LARGEST PHARMACY IN THE WORLD.

SOME years ago we gave a few brief particulars of Mr. K. J. Ferrein's pharmacy in Moscow, which is believed to dispense more prescriptions daily than any other pharmacy on the face of the earth, and we are now glad to supplement those notes by some fuller particulars of this remarkable establishment, together with a few illustrations, taken from our excellent Viennese contemporary the *Pharmaceutische Post*.



THE LATE MR. K. I. FERREIN.

Ferrein's pharmacy, with which is connected a large wholesale druggists' and manufacturing chemists' business, is situated in a comparatively narrow, but exceedingly busy, thoroughfare, known as the Nikolskaia, leading off the Krassnaia Ploschtschadj, or Red Square. The business was founded by the late Mr. Karl Ivanovitch Ferrein, a native of Arnswalde, in Prussia, where he was born on November 19, 1802. At the age of 14 young Ferrein came to St. Petersburg, and was there apprenticed to a pharmacist.

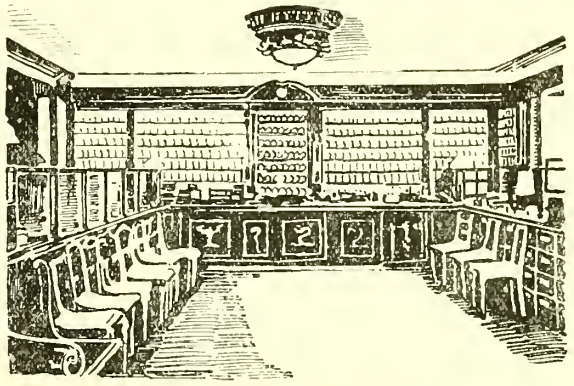


VIEW OF FERREIN'S PHARMACY IN MOSCOW.

After passing his first examination in the Russian capital, Ferrein transferred his services to a Moscow pharmacy, and in due time took the degree of a pharmacist of the first class. In 1832 he purchased the shop which formed the nucleus of the gigantic business of to-day, to which he gave the name of "Staronikolskaia Pharmacy," which it still bears. The situation of the shop was an exceedingly favourable one, the neighbourhood being the "city" part of Moscow, while the theatre-district is also close at hand. From the first Mr. Ferrein obtained a reputation for absolute accuracy and care in dispensing and for the general excellence of his goods. Mr. K. J. Ferrein devoted his life to the building-up of his business, and always took a keen interest in all the affairs of his craft. He died of heart-disease at Innsbruck, in the Tyrol, in August, 1887, while on a holiday journey, and the proprietorship of the business then devolved upon his two sons—Mr. Vladimir Karlovitch, a pharmacist of the first class, who had managed the business since 1871, and Mr. Andrei Karlovitch, a practical chemist.

The pharmacy is situated upon the first floor of the building, the dispensing-room being to the right, and the room for sale over the counter to the left, of the main staircase. In the first-named apartment from eighteen to twenty assistants and apprentices are engaged all day long in receiving and entering prescriptions and delivering the goods when ready. The dispensing itself is done in a glass-roofed room, behind this apartment, by another staff of from twenty-four to twenty-eight apothekers. If a prescription contains poisonous ingredients, these are always handed to the compounder, and the weights checked specially by one of two apothekers appointed only for that purpose. Every prescription, after being compounded, is submitted to chemical examination, in order to check its accuracy and efficiency; and, as it frequently occurs that over 1,200 prescriptions are dispensed in a single day, the large staff do not usually find time hang heavily upon their hands.

Through an apartment devoted to the use of the assistants the "coctorium" is reached. For the sake of cleanliness the walls and floor, and, so far as possible, fittings, of this room are in white marble. The number of assistants employed in the room for sales over the counter is ten. At the back of this room is the partners' private office, containing, besides a choice scientific library, a fine materia medica collection. A staff of twenty men and boys, under the control of two apothekers, are employed in the adjoining store-rooms. Further on is the office in which one man (a qualified



THE DISPENSING-ROOM IN FERREIN'S PHARMACY.

chemist) is specially engaged in entering the day's prescriptions in special registers for the control of the medical authorities. Five such registers, measuring 14 by 20 centimetres, and containing 800 pages each, are filled every year.

The upper storeys contain the employés' dwelling and dining rooms, large store-rooms, and immense drying-floors for the preparation and storage of medicinal herbs. On the ground floor are the pharmaceutical and the chemico-analytical laboratories.

The entire building is lighted by electricity. The average number of prescriptions dispensed annually is 300,000, and the total takings for these are 360,000 roubles. The firm employs 123 pharmacists (of whom 35 are engaged in the wholesale branch) and 170 warehousemen, boys, &c., of whom 91 are engaged in the wholesale department.

LITTLE BOY (with bad cold in the head): "Water is runnin' out of my nose all the time." Mamma: "That's because you went out in the cold with no hat on." Little Boy: "I didn't know it was cold enough to burst my pipes."

MEDICINE IN THE BACK-BLOCKS.—A Cobar (N.S.W.) doctor recently published the following notice in the local paper:—"As the weather is too hot to make the counting of the railway sleepers between Cobar and the Unemployed Bureau in Sydney a pleasure, I am compelled to request that all persons indebted to me will settle their accounts. I do not want to leave Cobar between two days either, and in order to pay I must be paid. No man likes to leave a place poorer than when he came, and, as my total assets on arrival here were a clear conscience and a dozen clean collars, I deem it but fair that those indebted should pay up and enable me to depart with at least the first item in my schedule. Callers will find the name on the door in charcoal, the knob turns to the right, and for further particulars apply within."

Scientific Notes:

On Chemistry, Pharmacy, Botany, Materia Medica, &c. Original, Selected and Translated.

Polarimetric Examination of Gums.

Guichard has examined the rotatory powers of the various acacia gums in the market and finds that they form three series: those of Galam, Mogador, and Australia have a rotatory power near + 16°. Arabic, Aden, and Amrad gums border upon + 32°, whilst gum Ghatti has a rotatory power elose upon + 64°. The differences may be explained by the view that the gums are mixtures of several dextro-rotatory and lævo-rotatory substances.

How to Detect Cineol.

Cineol may be detected in volatile oils, according to Hirschsohn, by putting 5 to 15 drops of the oil in a test-tube, shaking it with $\frac{1}{6}$ to $\frac{1}{2}$ grain of iodol, and a few drops more of oil added, if neeessary, to dissolve the iodol. The mixture is set aside for some time, when, if cineol is present, a crystalline compound separates on the sides of the tube. The oil is poured off, the crystals washed with petroleum ether and a solution of potash poured over them, when the odour of cineol is produced.

The Musk-ox.

The animal commonly known as the musk-ox (*Ovibos moschatus*), though approaching in size the smaller varieties of oxen, is in structure and habits closely allied to the sheep, its affinities being well expressed by the generic name *Ovibos* bestowed upon it by De Blainville. The specific name, as also the common English appellatives, "Musk-ox," "Musk-buffalo," or "Musk-sheep," applied to it by various authors, refer to the musky odour which the animal exhales. This does not appear to be due to the secretion of a special gland, as in the case of the musk-deer; but it must be obscrved that, except as regards the osteology, very little is known of the anatomy of this species. It about equals in size the small Welsh and Scotch cattle.—*Nature.*

Gynocardic Acid.

M. Petit states (*Jour. Phar. et Chem.*) that this acid can be prepared in the following manner:—Take any convenient quantity of Chaulmoogra oil, and saponify it by means of soda-lye (36°). Then add to the mixture twice its weight of water, and bring to a boil, constantly agitating. Test to see when saponification is complete, then add common salt in suffieient quantity to throw out the soap; cool, collect the soap, and wash rapidly with a little water. Now decompose the soap by treating it in a suitable vessel with sulphuric or hydroehloric acid, heating to aid decomposition. Wash the freed acid with warm water, then dissolve in 60-per-cent. spirit in the proportion of 100 grammes of the acid in a litre of spirit, warming to dissolve. The acid crystallises out from the spirit, and more can be obtained by distilling the filtrate. The acid is finally freed from alcohol by warming on a water-bath.

Solidago Rugosa.

One or two solidagos (golden rod) are in use in the United States as carminatives and stimulants, especially *S. odora*, which is known as the "sweet-scented golden rod," which at one time was recognised by the U.S. Pharmacopœia. Mr. W. P. Oberhauser states that very little has been written about the members of the genus, except *Solidago odora* and *S. Virga-aurea*. *Solidago rugosa* grows from 1 foot to 6 feet high, and is rough and hairy, especially the leafy stem. The plant flowers during August and September. A quantity of the plant was collected during the flowering season, and after careful drying it was submitted to analysis, which showed that in addition to ordinary plant constituents it contained 1 per cent. of volatile oil. Flowers and leaves were then subjected to distillation separately, and it was found that the flowers yielded a colourless oil of specific gravity 0·8486 at 15° C., while the leaves gave a straw-coloured oil of specific gravity 0·8502 at 15° C. Both had the odour of origanum. The results have been communicated to the *American Journal of Pharmacy.*

Estimation of Mercuric Chloride.

The method which Vignon used for estimating mercuric chloride in his experiments on sublimate cotton was to take 50 c.c. of a 1-per-mille solution of the chloride, add 5 c.c. of pure hydrochloric acid and 10 c.c. of a clear saturated solution of hydrogen sulphide. The yellow precipitate obtained rapidly turns black; it is filtered through a filter, weighed to $\frac{1}{10}$ mgrm., washed, dried, and pressed. In solutions containing 1 part of mercuric chloride in 10,000, a gravimetric process cannot be applied with accuracy.

Testing Indiarubber.

According to M. Vladimiroff the following are the tests to which this substance should accord:—(1) Caoutchouc should not give the least sign of cracking when bent to an angle of 180°, after five hours' exposure in an air-bath at 125° C. (the specimens 2·4 in. thick). (2) Caoutchouc having not more than half its weight of metallic oxides should bear stretching five times its length before rupture. (3) Caoutchouc exempt from all foreign matter except sulphur should be capable of stretching at least 7 times its length before rupture. (4) The extension measured just after rupture should not exceed 12 per cent. of the original length (with given dimensions). (5) Suppleness may be determined by calculating the percentage of ash after incineration. This may form the basis of choice for certain uses. (6) Vulcanised caoutchouc should not harden in cold.

Nitrogen-fixing Micro-organisms.

Professor Berthelot, in a recent communication to the Academy of Sciences, states that from a series of experiments upon samples of earth taken from the Botanic Garden of the École de Pharmacie it appears that the micro-organisms capable of fixing free nitrogen from the air belong to widely-varying species, but the chief agents are certain bacteria of the soil, seven species of which were isolated. The carbon and nitrogen of the atmosphere do not appear capable of supporting the life of these bacteria, and their nourishment is chiefly derived from the decomposition of sugar, tartaric acid, and other hydrocarbons supplied by higher organisms. If there is an abundance of combined nitrogen at hand, the bacteria flourish more profusely, and their absorption of free nitrogen, though placed beyond doubt, has certain definite limits. On the whole, it seems that the carbon-fixing and the nitrogen-fixing organisms fulfil mutually supplementary functions.

Characteristics of Guaiacol.

At a recent meeting of the Berlin Pharmaceutical Society Dr. H. Thoms described the characteristics of crystallised synthetic guaiacol. He agrees with Behal and Choay that the crystals melt at 28·5° C., boil at 205° C., and that the specific gravity is 1·1365 at 19° C. Generally it is stated that sp. gr. 1·117 at 15° C. is the factor for pure guaiacol, and that its solubility in water is 1 in 200; but Dr. Thoms says that these factors are wrong. He finds the solubility in water to be 1 in 50. Ten cubic centimetres of a 1-per-cent. alcoholic solution of synthetic guaiacol gives with a single drop of ferric-chloride solution (10 per cent.) an emerald-green colour; 1 drop of ferric-chloride solution diluted with water ten times gives a blue colour which quickly changes to emerald-green. A drop of this diluted ferric-chloride solution with 10 c.c. of 0·5-per-cent. aqueous solution of guaiacol gives an evanescent blue colour changing to brownish-red. On standing this becomes dark brown. A similar brownish-red colour is obtained by adding a few drops of potassium chromate solution and excess of hydrochloric acid to 10 c.c. of the watery solution. A cherry-red colour is produced by mixing with the aqueous guaiacol solution a few drops of hydrochloric acid followed by a little potassium-permanganate solution. This also becomes brownish-red on standing. Bromine-water gives a red-brown precipitate. Small crystals of guaiacol give a colourless solution with concentrated sulphuric acid in the cold, but on heating the solution becomes yellow, green, and finally red brown. In the course of the discussion on this paper Dr. Kinzel stated that he had found 1 in 60 to 1 in 70 to represent the solubility of guaiacol in water.



Chemists and their Customers.

"Atween the Kirks."—Boy: "A pennyworth o' lozenges." Chemist: "Are they for a cough?" Boy: "No; they're for the kirk."

"Do you sell liquid powder?" asked a young woman of somewhat simple appearance. Not being April 1, pulv. glyc. comp. was supplied.

A Domestic Prescription.—One ounce of seterick ased for puttin' in jam.

New Preparations.—Red pictic ointment, pomgranate of potash, tincture of emamalice.

A woman entered a City shop last week and asked for a bottle of "Buffio Bill." Bovril was meant.

"A Shilling's-worth of catch the devil," was the problem propounded to Mr. Oscar Bancke of Barcaldine.

From the Suburbs.—"Please send me 6*d*. pennyworth of powders for Scotch Greys, also the finest Scotch fowling-piece for hunting the same."

A Blackpool chemist contributes a couple of curious specimens. These are "queenhineahine" and "hyoleyou-culpeter"—read as quinine-and-iron and eucalyptus oil respectively.

In the Far East, Plaistow say, they send for "boiling macknisher," "aromatic perfection," "leg a potassa," "high-ripicary powder," "pillow roof pills," "literate frictory," "oil hamba," and "strong rubub pills."

Customer wants tinct. opii ½ oz. What for? "To tighten pegs in banjo." I pleaded ignorance of such usage. Was told "If I lived near a music-hall, would have known it long ago." Not being so located, no business done.—C. F. Smart (Littlehampton).

I was asked by customer to sell some ol. pulegii, and wanting to know the use intended for it, was told as a great secret, "'Twas to polish a copper scuttle with!" Told him acid. oxalic would meet the case. No business done.—C. F. Smart (Littlehampton).

At a leading pharmacy in Longton, Staffordshire, a young lady who applied for an ounce of "gentle Christians for marking bags wi'" had her requirements correctly met when the genial proprietor handed her a packet of magenta aniline dye (magenta crystals).

An Adelaide (South Australia) chemist records the visit of a little girl with the following message: "Please 6*d*. of pills for cleaning the stomach." Our correspondent adds: "Collapse of all in hearing." Why? We see nothing so shocking in the request.

"2 D Sitarinmagnicha," writes a Swindon lady, and the Swindon chemist who sends the order to us, asks—How is this after twenty-three years of compulsory education? That depends on whether "citrate of magnesia" has been one of the subjects of the curriculum. If a customer left an order for something to be sent to Mr. Tomson, how is the chemist to know, without special information, whether to spell the name with or without an h and a p?

Mr. W. Ham, of Hounslow, sends us a lengthy poem, which a customer sent him, asking for some application for his eyes, in the following style:—

Sir, I am suffering from a weeping eye,
And yet I have no pain;
Neither have I cause to sigh,
Yet heal it I would fain.

With me, sir, all the whole day long,
The hours they sweetly fly,
I'm as happy as a bird of song,
Then, why my weeping eye?

And so on for seven stanzas.

Meyer Brothers' Druggist (St. Louis, U.S.) gives a column something like this, heading it "Odd Orders over the Counter." The fun is pretty well dried up, but it may be interesting to notice how American orthographic mistakes vary from ours. The following is a collection sent to the *Druggist* by J. E. Johnson, Springfield, Ohio:—

5c Worth of sainia tea pleece.
pleas give to this little bay et
05 worth of camiol.
crows of Settlement.
5 Arcany.
One silder powder.
Gumgoach
Acaa Ammonia 5 lt.
puloris lickers.
Ditney.
Aurinake
mesodic pills.
5 cents Worth geginckof ginner
ten et Jacke Club Cloan.
3 seldom padders.
Ten go whackem pulvise putt in
20 Cents wispey for Rumatiz.
getortter.

An Indian Order.—There is a strange element of honesty and phonetics in the following letter which a Bombay correspondent sends:—To the Blankenkoe Shop, Bombay. Sir,—I beg to state that I hope you will sent me following Fiseck. Give the man that bring this letter and you take from him Rupees without take rupees you no give the following Fiseck:—

Tincher Faray per Kolourdam 4 ounsces.
Tincher Distaliss 3 ounses.
Farite Koeney Saraytatiss 2 ounsces.
Potas Aydeydam 3 ounses.
Soeda salisa 2 ounsces.

Th's was what the house supplied:—

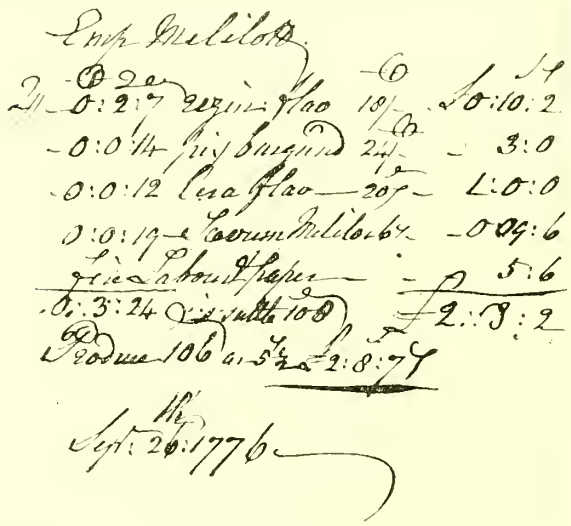
Tinct. ferri perchlor.	℥iiij.
Tinct. digitalis	℥iij.
Fer. et quin. cit...	℥ij.
Potass. iodid.	℥iij.
Sod. salicyl.	℥ij.

WHOLESALE PHARMACY IN THE EIGHTEENTH CENTURY.

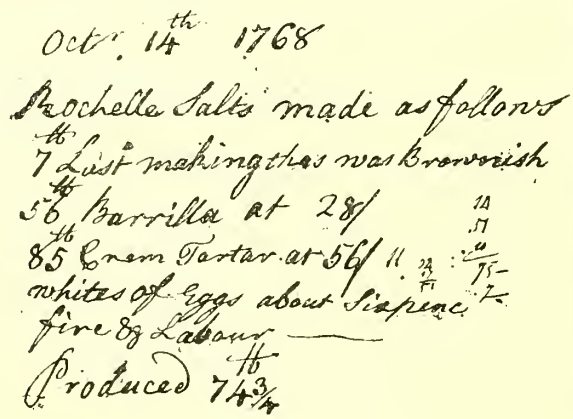
THROUGH the kindness of an old-established wholesale house in the City of London we have recently had the opportunity of inspecting two of their laboratory books, which go back more than a century and a half. They are very interesting volumes, externally vellum-covered, and stained with generations of use in the laboratory. Internally, we find them to be volumes of recipes, with such details of prices and working expenses as would make a contrast with the present instructive, were it not that new fashions in physic have rendered many of the preparations obsolete.

Recipes.

The first of the books was commenced in 1741, and was completed on July 14, 1776, and the second dates from then up to 1795. The laboratory manager who indited the first book was a tolerable penman. The following is an example of the way in which he entered formulæ in the book:—



We have found various scraps in the first volume which apparently were never intended for preservation. The following is one of them, and it will be seen that it takes us back



to the time when most of the soda used was obtained by burning the salsolaceous plants which grow so abundantly on the shores of the Spanish peninsula. Threepence a pound was not at all an extravagant price for the soda. Apparently the cream of tartar in use then was not very pure, or the chemist did not know how to make the most of his stuff, for a yield of 74¾ lbs. of Rochelle salts from 85 lbs. of cream of tartar is not satisfactory.

It is a noticeable feature of the formulæ in these books that changes occur occasionally, and unaccountably, for they appear to bear no reference to fresh editions of the London Pharmacopœia. For example, there are three formulæ for emp. melilott. in the first book—one in 1741, a second in 1775, and a third change in 1776. The last is the one we print. It will be noticed that it is the Jupiter sign that the writer begins his formula with. The changes are generally in the direction of simplifying, and that was very necessary. Thus in 1741 emp. adhæsivum contained thirty ingredients, amongst them roots, gums, seeds, and barks, as well as wax and resin. Elect. carycost. was a compound of cloves, zedoary L. ziber, cumin, rad. hermod, diagred., fol. rosæ, and mel. anglic. This was changed in 1767, when scammony and several essential oils were worked into the preparation.

It is an open question whether the laboratory men of to-day require to be as skilful as those of last century. The changes which have been effected in medicine have, on the whole, been in the direction of simplicity so far as galenical pharmacy is concerned. The skill now necessary is mainly chemical—a century ago it was mechanical, and that is often the more troublesome knowledge to acquire. Plasters, ointments, pills, troches, electuaries, and compound extracts, all with ingredients numbering from a dozen to half a hundred or more, certainly furnished a field for energy which we do not dream of nowadays. They had their chemical operations too, many of them requiring an acquaintance with crucible-work. Thus there was a demand for lapis infernalis aureum mosaic, a compound of

Stannum
Arg. vivum
Sal. Xis
Flor. 4r

So the recipe is entered, with the significant addition that four boltheads were used in the operation. Many similar articles were in request. We also gather that spt. nitri dulc. was in request, and it was produced at 1*s.* per lb., but S.V.R. was 4*s.* per gallon in those days, so that there must have been a good deal of waste. Another distilled spirit was "sal vol. oleos," the prototype of our sal volatile. At first they used cumin, coriander, nutmeg, spike-lavender, and lemon as flavours, but in 1757 a radical change was made, pimento and coriander taking the place of the more delicate aromatics. There seemed to be a great demand even in those days for the *aqua epidemica*, which was so popular at the time of the plague, for fifteen quantities were distilled, and one quantity measured 15 gallons. It was simply a carminative tonic, "grateful and comforting," as epidemic things should be whether they are true remedies or not. It was in 1741 that the fifteen quantities were made. But what do modern men think of twelve quantities, each 120 lbs., of elect. theriac.? The recipe occupies two long pages, and prescribes eighty ingredients. The labour employed in making the electuary cost 15*s.*, and labour was cheap in those days. There were plenty more compounds of a similar nature, their formulæ extending to a page and a page and a half of the book.

We note with interest that magnes. alb. was made by acting on "sal. cathart." (magnes. sulph.) with "ciners clevalos" (ammon. carb.) and drying the precipitate. This was in 1752. We close the recipe section of the subject with the following interesting formulæ:—

Ung. Dialthæ.

Rad. althææ virid.	8 lb.
Sem. lini	4 „
„ fenugræc.	4 „
Neatsfoot oil	16 „
Gera flav.	4 „
Res. flav.	2 „
Tereb. Venet.	℥viii.

Godfrey's Cordial.

Sassafras	2 lb.
Lig. campeach.	4 oz.
Opium theb	1 „
Tr. mefloss. ter.	1 „
Sacch. impur.	20 „

Guilder's Wax.

Take Beeswax	1 lb. 4 oz.
French chalk rubr.	10 oz.
Verdegrease	1½ „

Melt them together.

ESSENTIAL OILS.

The second of the two books is written in a beautiful hand, which is so like the style of German handwriting nowadays that we are almost forced to the conclusion that German chemists had then begun to take a place in English chemical industry. Whether that was so or not, the gentleman who superintended the laboratory from 1776 was apparently a better-educated man than his predecessor. He makes no slips in orthography, and there is about many of his processes a refining touch which indicates a man of some learning. What his predecessor lacked in skill he made up in carefulness, and it is to this that we owe a valuable record of essential-oil distillations which is worthy of publicity. We put the results as briefly as possible and in convenient form:—

—	Year	Herb used	Yield of Oil	Cost of Oil
Ol. anethi ..	1757	56 lb. sem.	25 oz.	20/- per lb.
„ „ ..	1766	56 .. „	17½ „	16 - „
„ anisi Alicant.	1775	56 lb.	24 „	21 - „
„ aurantii ..	—	12 cases	2½ lb.	13 - „
„ „ ..	—	16 „	47 oz.	13 - „
„ „ ..	—	30 „	5 lb.	12/- „
„ carui ..	1752	210 lb.	11 „	5/1 „
„ „ ..	1760	178 „	8½ „	4/11½ „
„ „ ..	1766	210 „	9¾ „	6/- „
„ „ ..	1773	140 „	6 „	5/4 „
„ „ ..	1779	56 „	3¼ „	8/- „
„ „ ..	„	168 „	7 lb. 2½ oz.	9 - „
„ „ ..	„	161 „	8 lb.	9 6 „
„ „ ..	„	84 „	3 lb. 7 oz.	10 6 „
„ „ ..	1781	168 „	7½ lb.	7 6 „
„ „ ..	1787	336 „	20 „	6 6 „
„ „ ..	1788	336 „	17½ „	6/3 „
„ „ ..	1789	448 „	24 lb. 6 oz.	6/- „
„ „ ..	„	112 „	7 „ 9 „	6/4 „
„ „ ..	1790	224 „	10 lb.	5/8 „
„ „ ..	1791	224 „	9 lb. 12 oz.	5 6 „
„ cinnamomi. .	1768	28 lb. (bloom)	4 oz.	39/- per oz.
„ „ ..	„	30 lb. (C. cassia)	10 „	16/- „
„ sem. coriand.	1759	112 lb.	5 „	3 - „
„ sem. cymini.	1765, April	122 „	3½ lb.	24/- per lb.
„ „ „	„ May	56 „	31 oz.	21/- „
„ „ „	1769, Aug.	140 „	4 lb.	9/- „
„ fœniculi ..	1756	112 lb. tops	14 oz.	12 - „
„ „ ..	1770	112 „ „	32 „	7/- „
„ „ ..	1775	128 „ „	18 „	13/- „
„ guaiac. ..	—	112 lb. gum	3½ lb.	10 9 „
„ hyssop. ..	1761	126 lb.	2½ oz.	2 8 per oz.
„ „ ..	1767	315 „	13 „	24 - per lb.
„ juniper. ..	1767	112 „	2 „ *	—
„ lavand. ver.	—	20 doz. (?) bndls	15 „	4/4 per oz.
„ „ „	—	45 „ „	37 „	3 9 „
„ limonium ..	1767, July	2 hhd. lemons	5 lb.	3 - per lb.
„ marjoram ..	1754	112 lb.	4 „	3 - „
„ „ ..	1765	„	„	3 - „
„ „ ..	1775	560 lb.	21 lb.	2 3 „
„ menthæ ..	1753	2 qr. 2 lb. tops 1 „ 4 „ stalks	13 „	3 2 „
„ „ pip.	1767, Aug.	560 lb.	30½ oz.	40 - „
„ „ „	1781†	560 „	35 „	38 - „
„ „ virid.	1767	1,680 „	6¼ lb.	36 - „
„ piper. Jam.	1759	56 „	24 oz.	28 - „
„ „ „	1771	54 „	26 „	22 - „
„ Pulegii ..	1767	245 „	20 „	12/- „
„ rhodii ..	1764, Aug.	140 „	1st dist. 10 oz. 2nd „ 15 „	7 9 per oz. 5 2 „
„ „ ..	„ Sept.	56 „	6 oz	7 6 „
„ rutæ ..	1755	84 „	2¼ „ ‡	3 - „
„ „ ..	1767	317 „	18 „	22 - per lb.
„ „ ..	1777	448 „	40 „	20 - „
„ sabinæ ..	1754	112 „	2½ lb. §	8 - „
„ sassafras ..	1753	122 „	4 „	4 9 „
„ „ ..	1756	224 „	8½ „	4/10 „

It will be noticed that oils of orange and lemon were made in those days by distilling the salted fruit. The quality of the oils must, therefore, have been exceedingly poor. The mint oils are entered as stated above. From the quantity of the first one we take it to be ol. menthæ pip., for it will be seen that the spearmint was in much greater request. We find no fewer than thirteen distillations of ol. sassafras in 1779, and the yields were so variable that the cost of the oil fluctuated from 10*s.* 6*d.* to 23*s.* per lb. We cannot explain why the first distillate of ol. rhodii was smaller than the second. It was either drawn at a lower temperature, or the second was a "doctored" article. The latter explanation is quite consistent with the practice of the time. For example, "ol. anisi sec." was made thus:—

6 lb. ol. ver.
1 lb. ol. olivæ
2 oz. spermaceti

We have given a large number of figures in regard to ol. carui, these showing how variable the yield was, how the cost fluctuated, and how much more popular an article it was then than it is now. We may also note that the firm sublimed camphor. Two batches occur between 1767 and 1775—viz., 59 lbs. of the raw drug which yielded 54½ lbs. of the purified, and 109 lbs. yielded 105 lbs.

* Also yielded 24 lb. of extract. No price given.

† There was a sharp rise in price from this date to 52*s.* per lb. In 1732 it was 64*s.* per lb., and in the year following 2*s.* 7*d.* per oz.

‡ Extract, 8 lb., at 10*d.* per lb., also obtained.

§ There was also a yield of 8 lb. of extract, at 1*s.* per lb.

PRICES.

There is not much to be gained by quoting the prices which occur in the books, for we have no means of knowing whether the figures quoted are the cost prices to the firm or what they sold drugs at. The following, however, appear to be list prices:—

	Per cwt.
Ol. terebinth.	£2 8 0
Res. flav.	0 10 0
„ nig.	0 9 0
Tereb. comm.	0 18 0
„ Venet.	2 16 0
Pix Burgund.	1 0 0

"To be sold at 10 p. c. disct."

Close to where we gather these items we notice that beeswax cost 1*s.* per lb. This was in 1741. Quicksilver was as lively then as now. In 1741 it was 4*s.* 9*d.*, in 1755 3*s.* 10*d.*, in 1765 3*s.* 8*d.*, and in 1769 3*s.* 9*d.* per lb. Camphor was 3*s.* per lb. about the beginning of the 70's. Opium was only 9*s.* per lb. in 1773; a few years before it stood at 20*s.*

These notes are sufficient evidence of the value of old books of this character, and where no special processes are revealed by them it would be desirable to give publicity to anything that is curious in them. Steps should also be taken to ensure the preservation of the books, by entrusting them, if need be, to some special library, such as that of the Pharmaceutical Society.

HOW CHEMISTS ARE ROBBED.

"THERE is not much fun in the monotonous existence of the average chemist," said the principal of a well-known establishment the other day. "Now and then the queer perversions of technical names by illiterate customers may provoke a smile—as when 'repaired chalk,' 'camel pills,' or 'salts of sorrow' (sorrel) are gravely demanded; but for the most part it is a slow life. Nevertheless, it has its every-day incidents, and among these are certainly to be mentioned the petty thieving to which we are subject.

"When I first set up in business, I used to be astonished at the loss on small 'fancy' novelties such as one leaves in trays or boxes on the counter—scent-sachets, camphor-lockets, penny perfumes, lip-salves and the like; but I am a wiser—if a sadder—man now. It is an extraordinary fact that well-dressed well-to-do people are not above quietly purloining such articles when they can do so without its being noticed. Persons of the highest (apparent) respectability seem nowadays to succumb to this paltry temptation, as any shopkeeper will tell you.

"When I started here I lost shillings' and pounds' worth of such things, quietly and unblushingly abstracted while I dispensed a mixture or put up a box of pills. After a while, I had a large mirror put up at the end of the counter, which gave me a view of the whole shop, and whenever I saw one of these small robberies, I quietly added, 'A penny for the scent-sachet' (or whatever it was), in stating the price of the prescription or other purchase, as a matter of course.

"The money was never refused, and though the customer would sometimes turn very red, I never had the money withheld. The looking-glass paid for itself many times over.

"It wouldn't answer for the unfortunate chemist to protest openly against this pilfering. He would simply lose customers and be in continual hot-water by the process."—*Cassell's Saturday Journal.*

Personalities.

A London journalist has had the offer of 50*l.* to compile a Veterinary Pharmacopœia.

The name of John William Greenwood, Mytholmroyd, should have been included in our last week's list of successful candidates at the Edinburgh Minor examination.

In referring last week to Mr. W. K. Mager's visit to England, we gave the name of his firm incorrectly. He is the principal partner of Mager & March, chemists, Queenstown, who have one of the leading pharmacies in South Africa.

The two gentlemen who guaranteed subscriptions to the Veterinary Chemist Defence Fund, and who had not remitted when we published a list of subscribers a few weeks ago, have since sent in their proportions of the amounts they had guaranteed.

"Medicine-making up to Date" is the title of a long paper printed in this week's *Talk*, and dealing with the manufactures of Messrs. Burroughs, Wellcome & Co. The paper is accompanied by portraits of Mr. Burroughs and Mr. Wellcome (neither of them altogether happy), and a pretty sketch of the firm's dock at Dartford.

Private Saunders, chemist, of Highgate, and a member of the 2nd Middlesex Volunteers, was one of the foremost Londoners who had shots for the Queen's Prize, being, in fact, one of the last six who on Friday tied with 189 points for places in the final competition on Saturday. The final shooting was not in his favour, though his ten successive bulls'-eyes proved him a good shot.

On the occasion of the visit of the British Medical Association to Newcastle-on-Tyne next week, the University of Durham proposes to confer upon several of the leaders of the Association the honorary degree of Doctor of Civil Law. The gentlemen selected are:—Mr. Joseph White, Dr. W. Withers Moore, Mr. H. T. Butlin, Dr. David Drummond, Dr. G. H. Hume, Dr. C. J. Cullingworth, Sir Walter Foster, M.P., and Mr. Ernest Hart.

Mr. R. T. Plumpton, who has just been appointed to the post of lecturer on chemistry at the Middlesex Hospital, was for a long while demonstrator on the same subject at University College, Gower Street, where for the last few years he has been assistant professor of chemistry, his chief being Professor Ramsay. Mr. Plumpton holds the German degree of Ph.D., is red-haired, plump in appearance, and correspondingly amiable; so the *Star* says.

Mr. W. Lloyd Williams sends us some interesting reminiscences of his late intimate friend, Mr. Harry Dixon Fuge, whose untimely death we recorded last week. Mr. Williams and Mr. Fuge lodged together for three years, and, indeed, until, as Mr. Williams remarks, "the partnership was dissolved by reason of my entering into a closer tie with 'another fellow.'" Fuge's capacity for work, Mr. Williams says, was very great; he was very methodical in the allotment of his time, and it was his custom to construct a time-table in accordance with the exigencies of the particular examination in front of him. He had a very remarkable memory—for facts in science, the points of a lecture, practical demonstrations or laboratory work, he was a second Macaulay; yet he was constantly forgetting his keys—he left them in the street-door several times—he lost a hat, several umbrellas, and, most mysterious of all, an overcoat! Upon one occasion he had been to visit a friend and was returning by train. Having a few minutes to wait he began pacing the platform, and presently was so much occupied with his thoughts that the train came in and left him still pursuing the current of his imagination. His concentration of mind was remarkable, and it was this quality rather than any continued effort or "grind" that enabled him to acquire his information at express speed: his retentive memory always had it at hand when wanted. These characteristics rendered him a most formidable competitor, though, curiously enough, he was unsucessful the first time he went in for the Bell Scholarship; and the same may be said of many other Bell scholars. By way of contrast, "the man in the street" always had the better of him upon points of common knowledge, and a "general knowledge" paper was one at which he always jibbed in an examination. At times his duties were so exhaustive as to leave him neither opportunity nor inclination to pursue his own studies—many a time he has fallen into a most profound slumber over his books. He was not at all a bad subject for observing the development of the so-called narcoleptic condition: he constantly slept in omnibuses, tram-cars, &c., but was never carried past his destination. As an instance of the rapidity with which he was able to get up a subject, it may be mentioned that he prepared the Greek necessary for an examination at Cambridge during the few weeks between the end of July and the middle of October. The alphabet was the extent of his knowledge at starting, and the examination embraced one of the Gospels. Successful as a student, his *métier* was that of a teacher; he possessed to a remarkable degree the power of appreciating the particular difficulties of individual students. He could place himself in the focus of the student's range of vision, and was able at the same time so to illumine with the rays of his own fuller knowledge and experience the student's field of view. It was altogether too early for anything more than conjecture as to his future. He was aiming for a good degree at Cambridge, and the D.Sc Lond. would no doubt have been added to the list of honours that began with a scholarship to the High School, Newcastle, at the early age of ten years.

The following is an excellent likeness of Mr. Arthur Conyngham, the Queensland druggist, who, as we have before mentioned, is a member of the Australian team of cricketers now in England, and an effective left-handed



bowler. Those who only know Mr. Conyngham in the field will perhaps scarcely recognise him in mufti. Mr. Conyngham expresses himself as much pleased with his visit to this country, and seems not indisposed to make his home on this side.

"But, doctor, you said last week that the patient would certainly die, and now he is perfectly well." "Madam, the confirmation of my prognosis is only a question of time."—*Fliegende Blatter.*

THE EDINBURGH MINOR.

A SUCCESSFUL candidate (25/71) at the April examination in Edinburgh sends us an account of his experienee. So far as the oral examination is concernod there is nothing new to reeord. Examiners have a wonderful uniformity of material to deal with quarter hy quarter, and the questions come to be pretty mueh of the nature of stock specialities, re-wrapped and re-labelled now and then to look like new.

THE PRACTICAL CHEMISTRY

which our correspondent got consisted of the following:—

Salts were carbonate of zinc, salicin; solution of nitrate of silver; sp. gr. of piece of metal; test solution to estimate volumetrically (hydrate of sodium).

THE PRACTICAL PHARMACY

was equally arduous and searching, viz.:—

(1)

Sod. bicarb.	gr. v.
Amm. carb.	gr. j.
Bismuth. carb.	gr. x.
Inf. rhei	℥ss.

Mitte ℥vj.

Sig.: Take at night, and in the morning if thought desirable.

(2)

Bism. subnit...	gr. v.
Pulv. ipecac...	gr. ½
Sod. bicarb.	gr. j.

M. Ft. pulv. Mitte vj.

Sig.: One after dinner.

(3)

Sol. potass. brom.	℥iv.
(8 per cent.)	

Sig.: Solution.

(4)

Ung. plumbi acet.	℥ss.

Sig.: Soothing ointment.

(5)

Podophyllin...	gr. j.
Spt. ammon. arom.	♏ ij.
Aloes Barb.	gr. x.
Ext. hyoscy.	gr. xxiv.

M. Ft. massa et div. in pil. xx.

Sig.: One 2ce or 3ce a week.

In both sections the candidate passed through the hands of five examiners.

DEATHS.

ADAMS.—On July 9, James Adams, chemist and druggist, Brixton. Aged 54.

BAKER.—On July 10. Augustus Baker, chemist and druggist, late of Downham Market. Aged 61.

GLANVILLE.—On July 11, Henry Charles Glanville, chemist and druggist, late of Nice. Aged 32.

MASTON.—On July 4, George Maston, chemist and druggist, Hartlepool. Aged 54.

SHRUBSOLE.—On July 21, Mr. George William Shrubsole, chemist and druggist, Market Square, Chester. Aged 64. Mr. Shrubsole, who was one of the first to pass the Minor examination, his certificate heing No. 24, went to Chester upwards of forty years ago as assistant to Messrs. Bowers Brothers, chemists and druggists, afterwards opening a husiness of his own in Market Square, which he has carried on ever sinee. In addition to the chemist's retail trade he conducted analyses of water, lead ore, &e., for a large circle of clients from the mining districts of North Wales, work for which his early training in the School of Pharmacy, where he was a distinguished student, fitted him. Mr. Shrubsole was honorary curator of the Grosvenor Museum. He was an F.G.S., and an enthusiastic geologist, and it would be hardly possible to name a man more familiar with every point of interest to the geologist, the botanist, and the antiquary in North Wales than Mr. Shrubsole, and he was known to most of the residents in the North Wales counties who took an interest in the same branches of research. He took great interest in antiquarian topics, especially in relation to the ancient history of Chester. Some years ago he got into a vigorous controversy with some eminent authorities who disputed the opinion he had arrived at that there was no portion of the old Roman walls actually *in situ* in Chester. Mr. Thompson Walkin, the author of "Roman Lancashire" and "Roman Cheshire," supported the theory warmly. When the British Archæological Assoeiation met in Chester a few years ago Mr. Shrubsole was the loeal seeretary.

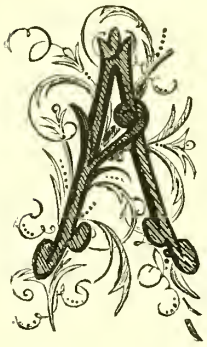
SMITH.—Mr. Thomas Smith, of Edinburgh, whose death we announced last week, was horn in Paisley on January 9, 1807, but removed early in life, with his father's family, to Edinhurgh. There he was apprenticed to a firm of cabinet-makers, but relinquished that for the study of medicine, which he had a great liking for, and supported himself at the Medical School by keeping a drug-shop in the Pleasance, a district of Edinburgh. After he obtained his licence from the Royal College of Surgeons, Mr. Smith was appointed, in conjunction with Dr. William Brown, to attend cholera-patients in the Canonmills district during the epidemic of 1831-32, and, as it happened, this was the only medical practiee he ever had, for at the termination of the epidemic he took premises in Duke Street whieh he fitted up as a



pharmacy. Here he was joined hy his brother Henry, who had taken over the Pleasance shop, and togcther, as T. & H. Smith, they commenced the husiness which was ultimately to develop into one of the hest-known chemical-factories of the world. It was mainly owing to Mr. Thomas Smith's skill and ahility that the discoveries associated with his firm's name were made. Mr. Henry Smith, who died about thirty years ago, was the husiness-man of the concern. For more than half a century Mr. Thomas Smith worked continuously in research, and the published papers on the principles of opium, aloin, senna, and on many other pharmaceutical subjects, from his pen were prohably more numerous than any pharmaeist of our time has produeed, while the value of some of his diseoveries gives him first rank in the history of pharmaceutieal chemistry. Mr. Smith retired from the firm of T. & H. Smith & Co. about twelve years since, but up to a few months ago he assisted the old firm by his private researches. The husiness is now heing carried on on behalf of his nephews, and it comprises the chemical-factory at Canonmills, and retail and wholesale establishments in Duke Street, Edinburgh, with the hranch in Worship Street, London.

SMITH.—On July 10, William Foster Smith, chemist and druggist, Billingborough. Aged 73.

THE INCOMPLETE PHARMACIST.



T a meeting of the Dundee Chemists' Assistants' Association some time ago, Mr. Walter MacEwan, a chemist and druggist who has a considerable reputation in Scotland as a novelist, read a paper entitled "The Incomplete Pharmacist." The man whom Mr. MacEwan had first in view was one Euonymus, whose "Treasure" took the form of a black-letter book published in the year 1559. This "Treasure of Euonymus" is really a Latin work on pharmacy by Conrad Gerner, a German, done into English by a scholar of Oxford. There is in it much that is quaint and strangely nineteenth-century-like, about all of which Mr. MacEwan had something to say; but it is with the latter part of the paper we are more concerned at present.

It was one of the old pharmacists' peculiarities, said the author, to use a still in all possible ways and for all possible purposes. How many are there of us who have never in our business used a still at all! We are content with all the cheap and nasty ways of "faking" up waters: rubbing the essential oils with calcium phosphate and water, or teasing them with wool and percolating with water, or shaking them up with boiling water and filtering, and so on: all the ways but following the plain B.P. instructions of distilling the barks, fruits, or what not, and thus getting a product so altogether superior that there is no comparison. I have known shops (he continued) which did not have a percolator or a water-bath or a screw tincture-press. What can a boy taught in such a place know of pharmacy save that in a far-off mysterious region called "the wholesale" there are evolved tinctures and pills and concentrated infusions with marvellous knowledge and appliances, such operations being impossible to the retail man, and the products thereof to be received with humble thankfulness and true belief? He comes to take the wholesale preparation as his standard, and if you show him that black draught bought by the barrel has neither the delicacy nor the effects of that made B.P., and that concentrated infusions when diluted have neither the consistence nor the taste nor the effects of the real thing, he only says "so much the worse for the real thing." It is difficult to convince him that even the best wholesale house cannot make decoct. aloes co. 1 in 4 without involving as great a contradiction as the statement that 2 and 2 make 5. He comes to believe that grey powder and blue pill are beyond the skill of the retail pharmacist, and that the B.P. preparation of vin. ipecac. is a merry little jest of the Pharmacopœia editors. For the guileless young person dwelling thus under the fatherly wing of the wholesale, the Minor comes as a rude awakening.

Mr. Mair advocates the formation of a class for the teaching of the younger men the elementary theories of their trade. The idea is good, but the necessity for it deplorable. Where, in the name of—of Pharmacy—should a young man learn that but in his shop? He does not go into a chemist's shop to do the mere mechanical grocery work of the place. He goes to learn to be a pharmacist, and if his master does not make him one, the master has surely failed in his duty. There are masters, I know, almost affectionately anxious to teach the beginner the higher side of his calling; there are others not so anxious. Some may say, "I'm too busy—don't have time for such unprofitable jobs. I'm a business man, and must mind my business." To these the answer is succinct: "If you don't have time to teach an apprentice, don't take an apprentice. If your trade is so good, better take an assistant, and don't help to flood the market with untaught young fellows, who, on being asked what they have done in your pharmacy, make rueful but exhaustive answer—'Four years.'"

So the matter is plain enough. A man can't have a thing without its price. If he takes an assistant he must spend money paying him; if he takes an apprentice he must spend time teaching him. This is the dilemma. The choice of horns is free.

And now let us, who are not masters, take ourselves into a corner by the ear and meditate upon our sins. Before a man can make a pharmacist of anybody he must have tractable material. What kind of material does he often get? Let us call the young gentleman "Euonymus." Well, Euonymus executes his first duty—say, of washing a mortar—so faithlessly that supposing the mortar to have been used first for guaiacum or calomel and then for carbonate of ammonia, the astonished dispenser sees his materials turn blue-green or black. Then Euonymus, rather than take the trouble to reduce his materials to their least common measure while making a tincture, chucks in roots, seeds, &c., almost whole, and lets osmosis take its chance. I have known this young gentleman make tinct. card. co. by maceration with whole or nearly whole raisins, and eat them afterwards plump and juicy out of the half-pressed marc, and that with much satisfaction. I have known him make it by percolation and put the raisins in altogether on the top of the other things and then whack them into a thick impervious plug which the spirit could by no means penetrate. I have known him spoil a batch of tinct. cinchon. co., and this was the manner of his doing it. He had made half a gallon and was 8 oz. short. He concluded to add 3 oz. of water and 5 oz. of rectified spirit, and thus produce the required 8 oz. of proof. These quantities do not make quite 8 oz., but that is not the point. He added the spirit and water separately. Had he put in the rectified spirit first it might have saved him, but he put in the water first, and the whole tincture became turbid, and was not brightened by the after-addition of the rectified spirit. It is easier to keep a thing in solution than to redissolve it after being thrown out.

Then Euonymus is perennially tired, and his first idea on being left behind the counter is to pull out a label-drawer and sit on it. Sometimes he pulls the drawer too far out and sits down on the floor in a whirlwind of labels. He is independent of a cork-presser, and uses his teeth instead of one, much to the delight of the patient who has to take the contents of the bottle. In dissolving a salt in a bottle he puts his finger over the mouth of it instead of putting in a cork. This is, perhaps, a venial fault, especially if performed behind a dispensing-screen, but Euonymus performs it *coram publico*, and sucks his finger afterwards. He does not take the drop from the lip of a shop-round after using it, but lets it run down over the outside of the bottle, unless it be syr.



telutanus or something nice like that, and then he licks the drop off with his tongue. As in poor neighbourhoods the same bottle is made to do service for many things, he likes to see how many strata of labels he can superimpose one upon the other. Often the outer label, being carelessly stuck on, peels off with the wrapper, and the label below announces to the bewildered observer that what appears to be castor oil in consistence and colour is really tincture of rhubarb. Euonymus uses the most slender spatula he can find to dig the stiffest ointment—say, ung. resinæ in winter—out of a pot, and generally succeeds either in breaking the spatula or in springing a gob of ointment out of the pot and into his

respected principal's eye. If sent to stir and cream an ointment diligently, he falls into contemplation, and the ointment receives, say, 3 parts of stir to 97 of contemplation. Being done with a greasy spatula he does not wipe it clean forthwith with a piece of paper, but throws it into a drawer among other greasy spatulas. In some establishments each man is made to carry his own spatula in his breast-pocket. With the blade up it may stab him under the chin as he bends down, with the blade down it may go through lining and into his trouser-leg; but these are details—the principle is good. Euonymus is always engaged in the pursuit of ever-vanishing pairs of scissors and penholders. If he but looks into a filter when nobody else is at hand (this is important), it bursts incontinently. If his wonder-working glance is cast upon a jugful of anything, and no one is there to see, immediately the bottom comes out of the jug, and its contents flow abroad, preferably over something that can be spoiled by them. If, alone, he reaches up for a bottle, straightway that bottle falls down and is broken into many pieces. Broken glass is ever about the path of Euonymus, the incomplete pharmaeist, and confusion follows him. We all know the incomplete pharmacist: most of us have been the incomplete pharmacist.

Now, suppose we have a youth only indifferently anxious to learn, and an employer only indifferently anxious to teach, what becomes of him when out of his apprenticeship? He often leaves the trade altogether; with that we have nothing further to do save to rejoice. I have been told that in Aberdeen they grow an immense number of assistants for whom they have no further use, and who are, therefore, put into trucks, taken to the harbour and shipped to London. My informant was a gentleman of respectability. I admit that he was a drug-traveller, but even a drug-traveller may speak the truth in seasons of repentance, as it were, provided it does not interfere with his business.

The true theory of a pharmaceutical apprenticeship is, I take it, like the scale of a Centigrade thermometer. It begins at 0° with the Prelim., it ends at 100° with the Minor. It may not coincide with the trade-apprenticeship, but the fact remains that a man cannot be said to have finished his apprenticeship till he has passed the Minor. I say his apprenticeship: his education will never be finished till he dies. But the rise from zero to 100° ought to be continuous. This is the point. Many fellows have said to me, "Oh, it's all nonsense pottering about for years before you go in for the Minor. You will have forgotten most of what you have learned by the time you go up. Just wait till six months before the exam., and then peg into it right on. Everything will then be fresh in your mind." This is the theory; the practice was shown by the last examinations, where two-thirds of the candidates failed. One may well afford to forget a great many of the facts he has been learning for years, if the mental training he has got remains by him for use. One might otherwise say that all the food a growing boy has eaten for years has been wasted because none of it remains in his stomach at the end of the time. The examinations are not merely a test of knowledge, they are a test of intelligence. If your intelligence has been trained by a constant endeavour through years to find out the why as well as the how of things, then you come to the tug of war in a much more athletic frame of mind. I don't deny that you will have to put in three months or so of steady, continuous grinding before you go up. But how much more good you will get from the grind if your mind is fitted to tackle it by a habit of thought! There was once a modest person who, on being asked if he could play the fiddle, answered, "I don't know; I never tried." There are lots of fellows who look upon the Minor as that gentleman did upon fiddling—utterly oblivious of the patient years of work required to make a satisfactory job of either. There are others who tell you that they know some ignorant duffers who have got through the Minor the first time. It is possible; but what do the users of this argument mean to prove? That it is a good and profitable thing to be a duffer, and that, therefore, they should say to themselves, "Go to, let us all be duffers; then shall we pass the Minor and be honoured among our fellows"?

All sorts of hints, ideas, and scraps of information are constantly circulating in the air during a fellow's apprenticeship. If he, personally, has made any sort of a beginning, these accumulate and form a treasure, just as I have seen bee-keepers put plates of wax stamped with the beginnings of hexagonal cells into empty hives, and forthwith the bees began to build a honeycomb on this foundation. If the plates are not put in, the bees often make no honey, but just loaf around the free breakfasts and don't put a farthing in the bank.

By many students the Minor is looked upon as a high fantastic barrier, put up merely to keep people out of a sort of promised land. The curious antics of the examiners are regarded as *Punch* benevolently remarked concerning the vagaries of certain statesmen, "It's only their fun." All these recent improvements—the adding of what have been hitherto regarded as "Major" subjects to the Minor—are simply looked upon as further persecution of the luckless candidate from a grim desire to see him squirm. After some years I believe, however, that the pharmacy which does not own apparatus for the standardising of galenicals, for the assay of opium, the testing of spirit of nitre, and the volumetric analysis of chemicals will be looked upon as we now regard the shop which does not own a percolator or a water-bath.

If a chemist's education, instead of the slow growth of years, is the fungus of a few weeks' cram, then it is a sham. If he manages to scramble through the Minor, his certificate is a sham; his professional standing and claim for social recognition are a sham; in every sense he is the Incomplete Pharmaeist.

Practical Notes and Formulæ.

MUCILAGE FOR MOUNTING PLANTS IN A HERBARIUM.

GLYCERINE, 4½ parts; soft soap, 4½ parts. Dissolve 1½ part salicylic acid in 30 parts alcohol; shake thoroughly, and add to a mucilage made of 139½ parts gum arabic and about 270 parts water. This mucilage remains elastic when dried, and does not have a tendency to crack. Use parts by weight.

PILL-COATING.

A DUTCH pharmacist suggests, among other methods, to damp the pills with a mixture of 1 part of glycerine and 2 parts of spirit (both by weight), then to roll in a mixture of sugar, 4 parts; tragacanth, 2 parts; and starch, 1 part. This gives a nice sugar-coating, and is a simple way of doing it. As to pearl and gelatine coating, there is nothing novel in our Dutch *confrère's* experience.

LIQUOR CROCI.

	Oz.
Saffron, cut small	1
Rectified spirit	15
Water	5

Macerate at a gentle heat, strain, and press.

The proportion of saffron is the same as in the B.P. tincture, but the extraction is far more complete.—*Canad. Drug.*

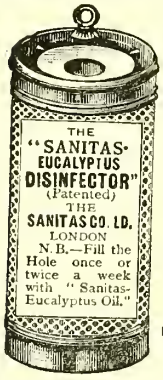
CLEANSING-FLUID.

Soft soap	8 oz.
Borax	4 „
Fresh oxgall	2 „
Turpentine	2 „
Rain-water to	4 pints

—*Canad. Drug.*

TO KILL THE ODOUR OF KEROSENE.

THE odour of kerosene may be modified, if not entirely destroyed, by using the following formula:—Mix chloride of lime with petroleum in the proportion of 3 oz. for each gallon of the liquid to be purified. It is then introduced into a cask; some muriatic acid is added, and the mixture is well agitated, so as to bring the whole of the liquid into intimate contact with the chlorine gas. Finally, the petroleum is passed into another vessel containing slaked lime, which absorbs the free chlorine and leaves the oil sufficiently deodorised and purified.—*Scientific American.*



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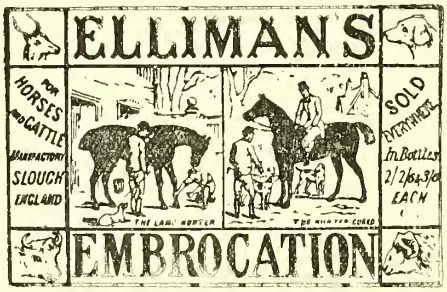
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Editorial Comments.

PHARMACEUTICAL LEGISLATION IN FRANCE.

THE French Pharmacy Bill, which has just passed the Chamber of Deputies, is the latest of a long series of unsuccessful attempts to replace the antiquated law of

Germinal of the year XI. of the Republic (March–April, 1803) by legislation somewhat more in accordance with modern ideas. Threatened institutions are proverbially long-lived, and the law of Germinal had admittedly become out of date as long ago as the reign of the Bourbon Charles X., when zeal for reform was not a prominent characteristic of the French Government. A kind of fatality appeared to blight all efforts to pass a new Pharmacy Bill, whether by Royalist, Bonapartist, or Republican Administrations, and only now is the ancient Germinal worthy, gradually overgrown with various excrescences in the shape of legal decisions, administrative orders, and Government decrees, being finally laid to rest. The Bill which replaces it has been before Parliament for nearly ten years. It has been repeatedly recast, and has been discussed in its initial stages time and again, but somehow fortune has constantly been adverse to it, and even until a few days ago its chances of passing the Chamber appeared remote. On June 27 the first sixteen clauses passed their second reading, the seventeenth being referred back to the Committee, who adopted an important amendment introduced by the Chamber. Considering that the Chamber will come to its natural end shortly—new elections being fixed for August—and that the Budget, Siam, and other matters more showy than pharmacy laws block the way of rapid legislation, the squeeze through of the Pharmacy Bill is little short of the miraculous. Although mainly introduced at the instance of the pharmaceutical profession, who protested, with reason, against the antiquated character of some of the provisions of the Germinal law, the new Bill, in its passage through the Chamber, has acquired certain provisions which are particularly disagreeable to the French pharmaciens, and which they are endeavouring to get the Senate to reject. The new measure consists of twenty-seven clauses, the greater number of which incorporate provisions of the old law with slight alterations, mostly of a verbal character only. The second clause deals with the "unification of the diploma"—in other words, the abolition of the degree of "second-class pharmacist." The present holders of the second-class diploma, who form about two-thirds of the French pharmaciens (in 1891 there were 2,319 first-class, and 4,781 second-class, men on the register), will be considerably benefited, for not only can they continue to practice without submitting themselves to a fresh examination, but while they have hitherto been restricted in the exercise of their profession to the department in which they were domiciled when passing their examination, they will in future be allowed to pursue their craft in any part of France. Clauses 3 and 4 deal with the status of foreign pharmacists. They provide that all pharmacists qualified abroad must obtain the French diploma before being allowed to pursue their calling upon French territory, though under special circumstances the Minister of the Interior may grant exemption. Foreigners must follow the same course of studies as is obligatory upon Frenchmen before being admitted to examination. But diplomas and certificates relating to elementary studies may be admitted as equivalent to similar studies pursued in France where the object is to obtain the admission of a foreigner into a school of pharmacy or other initiatory stage of pharmaceutical studies. Then follow clauses regulating the exercise of pharmacy, and differing but little from those now in force. Every pharmacist will be compelled to have his habitual domicile in the locality where he exercises his profession—a relaxation, it seems, of the present law, which, we believe, compels him to reside in the building where he has his business. No pharmacist may keep more than one shop or carry on at his place of business any occupation not connected with pharmacy. Neither may the proprietor of a pharmacy enter into partnership with a non-pharmacist, except for the purpose of carrying on a wholesale business in pharmaceutical articles. Though not expressly pronounced illegal in the old law, such partnerships had previously been held not permissible by the Courts, and their definite prohibition is, therefore, no special grievance to the pharmacists. The right to carry on the business of a deceased pharmacien for the term of one year after his death, and under the management of a qualified man, which formerly applied to the chemist's widow only, is now extended to all his heirs. All "understandings" or "arrangements" between chemists and medical practitioners with regard to the sale of medicines are made illegal—an innovation likely to benefit rather than to harm the chemist in a country where doctors' dispensing is unknown.

Henceforth country doctors will only be allowed to supply medicines to patients whose residences are at least 4 kilomètres ($2\frac{1}{2}$ miles) distant from the nearest pharmacy. Up to the present there is no distance-limit, the only requirement being that there shall be no pharmacien within the patient's "commune" or parish. As a French parish usually occupies a very small area, the new regulation will be hailed with satisfaction by the pharmaceutical body. The same clause (11), however, contains a paragraph which will scarcely afford chemists as much satisfaction, inasmuch as it authorises all medical men to supply patients with certain medicaments *d'urgence*, or "required immediately"—a schedule of which is to be drawn up separately. The composition of this schedule will certainly be jealously watched by the pharmacists, who, fortunately for themselves, are a body of considerable public influence in France, and count several members of their craft among the Deputies. Veterinary surgeons may not keep open shop; they may only supply medicines for animals entrusted to their care.

Clause 12 legalises the sale of proprietary medicines, hitherto technically prohibited, although universally tolerated in practice. Pharmacists will also be allowed to sell composite non-poisonous medicaments without a doctor's prescription, but with a label mentioning their active ingredients. The proprietors of "patent medicines," however, must pay for their enfranchisement by depositing their formulæ with the Academy of Medicine and by complying with certain conditions as to the labelling of their goods. This clause is really an invitation to chemists to substitute their own articles for the "speciality," for it is expressly stated that every French pharmacist shall have the right to inspect the formula (at the Academy), and to use it, provided he respects the proprietor's trade-mark.

A new poisons regulation (not included in the Bill) is to be issued, and a list of remedies which require a fresh doctor's prescription for every time of dispensing is to be added to the Codex. The "herbalist" diploma was to have been abolished, but for the present their clause is withdrawn. A corps of pharmacy-inspectors will be created. Its members will be chosen by the pharmacists themselves. The seventeenth clause, which was the subject of a prolonged debate in the Chamber on June 27, provides that industrial establishments and associations may establish a pharmacy for the exclusive use of their own staffs or members. These pharmacies must be managed by a qualified man, and they may neither sell nor give away medicines outside the circle of those for whose benefit they exist. Hospitals employing a qualified pharmacist may sell medicines to the public or dispense them gratuitously. All pharmaciens will be obliged to dispense medicines for the poor, for account of the administrative authority of their district, and according to a tariff to be fixed by the departmental authorities. The section giving the right of sale of medicines to hospitals was not in the

draft of the Bill, and was accepted by the Chamber by the narrow majority of 247 against 235, on the motion of Deputy Jules Roche, who has taken a very prominent anti-pharmaceutical part in this legislation. M. Aynard, one of the members for Lyons, stated that the hospitals in his city had practised this sale for many years, at an annual profit of 4,000*l.* to 6,000*l.* Clause 18 provides for the publication of the Codex, once every ten years at least, in the French language. The Codex Commission is to be a permanent one, consisting of professors of the medical faculties, professors at the Écoles Supéricures de Pharmacie, and pharmaciens in business in equal numbers, with two veterinary surgeons. The second-class diploma, now abolished, will still be handed to persons who have accomplished one or more stages towards its acquisition at the time of the passing of the present law, provided they obtain the diploma within the space of eight years at the most.

The penalties for infringement of the pharmacy law, which have hitherto been Draconian in their severity—500f. being the minimum fine allowed in most cases—are rendered more elastic, the fines being now made to range from 16f. to 1,000f., according to the gravity of the offence.

Although French pharmaciens generally do not seem to look with much love upon the new Bill, the advantages which it secures to their craft are greater than chemists in Great Britain can ever hope to enjoy. At the same time, the French law does not err on the side of the rigid officialism of the Prussian. There is no official list of prices. Every qualified man may start a shop, but only one, without having to wait for a "concession," as in Germany, where the system enriches a small moiety of pharmacists while keeping the great majority doomed to lifelong servitude and poverty, or forcing them out of the ranks of pharmacy proper altogether. To foreign eyes, therefore, the pharmaciens appear a particularly well-treated class from a legislative point of view.

ASPECTS OF AMERICAN PHARMACY.—II.

In a previous note we called attention to some of the commercial conditions which have been and are affecting the professional side of American pharmacy. We by no means wish it to be understood that the days of the Parrishes and Procters are ended, for there are now in the front ranks men of unquestionably high calibre, and others behind them ready to take their places. But the rank-and-file are not quite satisfactory, the condition of trade as well as the loose system of entry thereinto having introduced many who are not educationally or intellectually fit to adopt pharmacy as a means of obtaining a livelihood. As in all businesses where entrance is unrestricted, the drug-trade of the United States is at present much overcrowded. Stores are too numerous, and clerks are produced at an appalling rate. Several circumstances are responsible for these conditions. In the first place, it is only within the past decade that pharmaceutical legislation has become at all general, and even now a few States have yet to enact proper regulations regarding the sale of poisons and the qualifications of those who sell them. In all the States where pharmacy laws are in force the principle followed, so far as poisons are concerned, is substantially the same as in Great Britain, with, however, such modifications as the respective localities require. "Vested interests" have had full recognition, and, in consequence, the trade is chokeful of men calling themselves pharmacists who have been registered because of some nominal connection with pharmacy. They take legal rank with men who hold a pharmacy diploma as the result of proper training, education, and examination. This is a condition which has obtained in all countries for a generation after pharmacy has been controlled by the Legislature, and is not to America's discredit; but it is an acute factor in the competition which trained pharmacists have to meet. In some respects a more serious drag upon the wheels of pharmaceutical progress is the entire absence of any requirement of preliminary education on the part of those entering the trade. In no State whatever does any board of pharmacy require the candidate for an assistant's or pharmacist's certificate to show that he knows the three R's, nor do any of the State Acts authorise the boards to create a preliminary standard. This is one of the most astounding legislative omissions, for the United States has, or is supposed to have, such a splendid system of free education, carrying pupils on to grammar colleges, that the institution of a standard of education for young people entering pharmacy looks, to the outsider, as one of those things that would be done as a matter of course. The fact that there is no such standard is a distinct drag on American pharmacy, for message-boys and soda-fountain attendants find little difficulty in getting masters to say that they have served four years in a pharmacy, and the rest is next door to a formality. Boards of pharmacy are so constituted that the qualifying examinations are far from being a test of real knowledge. The law does not require the candidate to undergo a course of study at a college of pharmacy, nor does it recognise the diplomas granted by such colleges, or even by universities: all must go through the gauge set up by the State boards. These boards are elective bodies, the remuneration is inadequate and the best men, in the educational sense, do not offer themselves for the positions; while pharmacists with political leanings, as a rule good business men and good fellows, seek and get the appointments. As examiners most of them would in Europe be considered incompetent, for they lack that knowledge of science and of the principles upon which the practice of pharmacy is based that is necessary to judge whether a candidate is fit or not to supervise a drug-store. The worst feature about the matter is that some examiners are inimical to educational and scientific progress: if they know a man to be a good salesman they will overlook much weakness in regard to the technical portion of his calling.

These circumstances are the principal causes of the retardation of progress in American pharmacy, and amongst the influences which have brought it into a critical and unprofitable position as a business. As yet there appears to be no general appreciation of the facts. Teachers, a few examiners, and some prominent pharmacists have endeavoured to warn the trade of the evil, and have urged prompt remedies; but there is no sympathy with such notions, and the immediate result is that young men of good education give pharmacy a wide berth. What appears to be necessary before American pharmacy can take its rightful position is that—

(1) An examination in English, arithmetic, and Latin, or French, or German, should be instituted and passed by candidates before commencing apprenticeship.

(2) Evidence should be produced to show that candidates for a licence have been engaged for four years in dispensing and making pharmacopœial preparations, one year at a college of pharmacy being recognised as part of the period.

(3) The boards of pharmacy should be reconstituted so as to free them from executive functions, and devote themselves solely to the examination of candidates. With this object only men of distinguished collegiate career who are known to be up to date in all the branches of knowledge pertaining

to pharmacy should be appointed, and the honorarium should be such that the best men can afford to give their services.

It is the opinion of some of those best capable of judging in Ameriea that less than 5 per cent. of those entering the drug-trade in the United States could pass the English Preliminary examination, and probably not 1 per cent. could attempt the Latin paper. It has been even questioned if one in a dozen of the members of boards of pharmacy could write an English prescription in full Latin. It may be asked why, if that is so, American pharmacists do such good work. Their Pharmacopœia touches the high-water mark: how can that be? The answer really shows the possibilities of American pharmacy. The workers in research, the men who compile Pharmacopœias, are the pick of the thoroughly educated class, some of them naturalised citizens whose early training was obtained in Europe. American pharmacy would be bad indeed if from its 30,000 followers a score or two fit men could not be picked for the best work. But the conditions are altogether opposed to the growth of this class, and unless educational and examination reforms are introduced for the improvement of the trade, the United States Pharmacopœia will become an expression of the opinions of teachers or professors and of chemists to manufacturing houses. That is a consummation not desirable from any point of view.

IS IT A SUCCESS?

This is the question frequently asked regarding the Chicago Exhibition. It is not one which can be answered in a single concentrated sentence, for there are many elements in success, and the World's Columbian Exposition is much too large to be dismissed with an epigrammatic opinion. But there need be little hesitation in saying that it has just missed being an unparalleled success all round, and that because the place is too vast to fill in a limited time, with hurricanes of weather and drought of labour to impede progress. The fates have been against the promoters, and two months after the official opening there are departments of the organisation yet far from completion. But the broad-minded student of the Exposition sets that fact alongside what has been done during the two short years since a public park and a swamp represented the foundation of the White City, and the brilliant palaces, leviathan buildings, placid lagoons, and trim-kept gardens suffice to justify the opinion that the Exposition outwardly is a success. The patches of incompleteness serve to remind us that the creation is of human origin. No description of area occupied, labour employed, or money spent on the White City can give a reflection of the scene which first meets us at Jaekson's Park, because it is not the concrete which appeals so much to the mind as the brilliant conception of the designer. And it so rarely happens that an artist has the opportunity of creating an evanescent city that we are compelled to regard this one, with its wealth of ornament and purity of form, as a wonder which will not be repeated in our time, if again. The artist's success may mean the builder's failure, and that we fear will be the fate of the Columbian Exposition.

In spite of the roseate reports of the financial department, it must be said that the prospects of the Exposition promoters are gloomy. The average attendance has not yet reached half the estimated figure, and expenses are being cut down week by week. Millions of dollars have been sunk in the show which will never be seen again. The current revenue barely suffices to meet expenditure, and when the gates close for the last time the promoters must sweep the gorgeous buildings away and restore the park to its old condition. It is then that success will have the better of them, and Chicagoans will learn whether they have "paid too dear for their whistle" or not.

But there are higher considerations to be taken regarding international exhibitions. Their ulterior objects are the promotion of friendly relations between nations, the education of artificers regarding foreign methods, the promotion of international commerce, and the publication of new designs and novel products. In none of these objects has the Columbian Exposition missed success; but there are apparent many circumstanees which have circumscribed its usefulness. In the first place, it is far from being a fully representative exhibition. For example, our own country is known to rank in the front of machine-producing countries, but we look in vain through the Exhibition courts for evidence of this. The reason is obvious: our manufacturers refuse to give ideas to a country notoriously protective, and not above adapting the brilliant notions of those who are thus placed in a non-competing position. So, too, in regard to our chemical industries, and many other minor but important branches of manufacture allied to the drug-trade. Also, strange as the assertion may appear, the space available has proved to be inadequate, and a large number of important firms have refused to exhibit because they could not get room to display their manufactures so well as they would have wished. There appears to have been mismanagement in this matter, for some exhibitors, particularly in the Electricity and Machinery Buildings, have allotments of space out of all proportion to the general run, so that the less fortunate are placed in disparaging contrast. Another factor which militates against immediate success is the woful ignorance displayed by many attendants regarding the exhibits under their charge. While the bulk of Exhibition visitors go there to see rather than to inspect, many—especially those from distant countries—go for purely commercial purposes—to get specific information and to order special kinds of goods. Too often such visitors are referred to factories or head offices, the very places they hoped to avoid by visiting the Exposition. It must also be said that novelty is not a leading feature of the exhibits; in fact, it is unquestionable that in this respect the Chicago Exhibition is below the average. So far as pharmacy is concerned it has exceedingly little to teach us, for most of the manufacturers who have peculiar processes or products have—wisely, perhaps—stayed away, and in respect to pharmaceutical apparatus there is absolutely nothing new, and little that is old.

When the time comes for summing up the good influences of the Fair we expect that the factors which will bulk most largely will be the auxiliary congresses and the educational exhibits. All that tends to raise the social status of the people, to equip men and women more fitly for the battle of life, and to promote friendly relations between the nations of the world has prominence, while on the commercial side we see the resources of the North American continent well exposed: the industrial progress of the United States with all its peculiarities is fully exemplified, and its dependence upon older nations for the luxuries of life is reflected everywhere. In these respects mainly is it a World's Fair and a success.

THE POSITION OF CINCHONA-BARK.

The sudden decline of 25 per cent. or more in the value of cinchona-bark which occurred at the Amsterdam public auctions of July 6, when the unit fell to an average of 3 55c. per ½ kilo., or ⅝*d.* per lb. laid down in London, has wrung cries of despair from a number of people interested in the drug, and several representative Dutch planters and

brokers have improved the occasion publicly to advise their fellow-sufferers what course to pursue in the present distressed state of the market. With the exception of a closely-argued and very interesting article by Mr. Van Gorkom, formerly chief inspector of cultures in the Dutch Indies, the sum of the advice does not amount to much. It s the same that has been given in one form or another ever since, some years ago, prices fell to a point at which cultivation was declared unprofitable. When the unit still stood at something like 2*d*. per lb., it was said that the cultivation was being stopped and the existing plantations uprooted. It has now fallen to about one-quarter of that figure, and still the cinchona-supplies show no signs of giving out; for Java has stepped into the breach left by Ceylon, where cinchona-growing was never really carried on upon a thoroughly scientific basis, and of which the climate is now admitted by the best authorities not to be specially suited to the industry. There really does not seem to be any remedy except the drastic but natural one of allowing the growers who are financially weakest, or who produce the poorest bark, to hang themselves with the halter which is partly of their own making, in the hope that when only a few plantations, conducted upon proper economic principles and producing the best quality survive, the market will gradually veer back to a point which will allow a fair living margin to the proprietors of those estates.

It is evident that there has been for several months an understanding between the quinine-makers, by virtue of which they have ceased to undersell each other. Since then the price of quinine has remained pretty steady, and although the makers may not sell much in the speculative market, they must find a fair outlet among consumers. Seeing that they do not reduce the price of quinine any further, it is clear that they are interested in having the bark-unit at which they buy as low as possible, and it is not very likely, therefore, that they would move a finger to assist the planters out of their present miserable plight. A unit of $\frac{5}{8}d$. per lb. means that the quinine-makers buy their raw material at the rate of 3·9 per oz. (or 5*s*. $2\frac{1}{2}d$. per lb.) of sulphate of quinine extractable from it. As the lowest figure at which quinine is quoted by any of the factories is 10*d*. per oz., the buying-price leaves at least 6*d*. per oz. for freight, working expenses, commissions. and profits, which is a fair though not brilliant margin. As there is every prospect, thanks to the hopelessly-disorganised condition of the planters and their representatives, that the unit will continue to fall until the weaker vessels have gone the old, old way of all earthen pipkins, the quinine-makers will probably have the satisfaction of buying at cheaper rates still before the pendulum swings round again.

Meanwhile it is curious to watch the processes of reasoning by which the planters and their friends endeavour to juggle themselves into the idea that, somehow or other, relief is at hand, not a single one admitting that the situation they have now to face has been created through their own eagerness to rush into what they believed to be a paying industry without keeping count of the requirements of the market. One gentleman from Java, himself a planter, is trying to argue himself into the pleasant, but, we fear, delusive, belief that there has actually been since 1889 an under-production of quinine—in other words, that the world's total production of quinine in the bark from the beginning of 1889 until the end of 1892 has been 36,000 kilos. below the quantity consumed. He admits that from 1881 to 1889 it was the other way about. During that time, it seems, he believes that the production exceeded the consumption by a total of about 100,000 kilos., which is now being gradually reduced by natural laws. He has drawn up an elaborate chart of his figures, which has been published in the *Indische Mercuur*, of Amsterdam; but until the compiler will give us chapter and verse for the statement, which is the keystone of his whole fabric, that the world's consumption of quinine has risen between 1880 and 1892, from 130,000 to 290,000 kilos. per annum, we must decline to believe in his beautiful chart. The quantity of quinine consumed in the world annually is an utterly ungetatable figure. Even if the joint output of all the factories were accurately known (it can only be more or less guessed at by the knowledge of their purchases at the public sales), there are no means to trace the proportions of quinine consumed and held for speculative purposes, and under such conditions an elaborate chart full of details can only be a beautiful but ineffectual patchwork, upon which the author spends his luminous imagination in vain.

Another man (these people turn up after every breakdown in the market, as do the cranks with the patent safety appliances after a fatal collision) sees no hope excepting in the erection of a quinine-factory in Java, and seems to fret his precious health away because the quinine-makers pay only for the quinine in the bark, and not for the cinchonidine, quinidine, and other alkaloids, out of the extraction of which he darkly hints that the German makers are still building up enormous fortunes.

Yet a third councillor is Mr. Brusse, a respectable Amsterdam broker, a member of a fraternity not given to rush into print with manifestoes. Mr. Brusse feels quite limp with sympathy for the poor Java planters. He wants them to limit their crops for the next few years to about three-fourths of those they have been in the habit of harvesting. Why the growers of high-class bark should thus go out of their way to assist the producers of poor cinchona to prolong an existence which can only be injurious to their better-placed rivals, this broker does not explain. He might as well expect a good swimmer, who is fighting for his life in the waves, and who is trying his best to shake off a landlubber who has clutched one of his legs, to extend his second limb voluntarily to another non-swimmer, in the comfortable assurance that they would ultimately go to the bottom all three.

According to Mr. Van Gorkom's statements there are at present in Java no fewer than 149 companies or private proprietors who grow cinchona-bark, and who, together, possess about 283 plantations. These figures are much in excess of those given by the Java Planters' Association, and even if they should turn out to be somewhat in excess of the actuality, they show that the exhaustion of Java in consequence of unremunerative prices will be but a slow process. Another factor which renders many Java planters able to bear up against low prices for a prolonged period is that on a large number of the plantations cinchona is only a culture of secondary importance, and where that is the case the planter can refrain from harvesting his bark until happier times are in prospect. Unfortunately, the conditions upon which the land of other plantations has been leased by the Government preclude the lessors from planting coffee, the alternative crop for which the soil is suited, and Mr. Van Gorkom urges that under the present distressed conditions of the cinchona-industry the Government should abolish that disability. He also suggests the restriction of the output of the Government plantations, which is now sold in Amsterdam in competition with private firms. This is a suggestion that has also been made by the Amsterdam Chamber of Commerce, but to which the Government does not appear inclined to listen. The Government plantations are the richest in the island, and their produce represented in 1892 about 10 per cent. in weight and about 13 per cent. of the quinine sold at the Amsterdam auctions. It should not

be lost sight of, however, that the main object of the Government in establishing plantations in Java was not to assist private planters in making a profit, but to ensure the constant supply of cheap quinine—an object which has certainly been fully attained. Up to the present time, it appears, the Java bark at the Amsterdam sales has been much below the quinine richness that may be expected from it when the market conditions are once more such that only mature trees will be harvested. In their hurry to grow cinchona many growers have planted their trees too closely together, thus preventing the alkaloids from attaining their natural proportions. These immature trees are now being uprooted in large numbers and their bark keeps down the general level. Altogether the prospects do not seem very favourable for the planters, and during the present year, at any rate, the continuation of a cheap quinine and bark supply seems well assured.

ESSENTIAL OILS OF THE UNITED STATES PHARMACOPŒIA.

There are few branches of the pharmaceutic art which provide such ample means for the display of dishonesty as the manufacture of essential oils. This is mainly due to the fact that the nose, tongue, and eye have long been the testing instruments used by buyers. Pharmacopœias, generally, have not troubled much about essential oils. The tradition of the early decades of this century was that every druggist distilled his own oils, therefore that tests were needless; and that tradition floats around us at the present time, partly tempered, however, with the allegation that modern chemical tests do not agree, therefore are useless as pharmacopœia standards. The Revision Committee of the United States Pharmacopœia are free from this prejudice. They have had to face the fact that American supplies are received almost exclusively from foreign sources, and that bad reputations as well as good travel across the Atlantic. For these reasons, the Committee go further than the eye and nose will carry them, and in the edition of 1882 they gave fairly comprehensive physical and chemical tests for all the essential oils. Now they have subjected the factors of ten years ago to careful scrutiny, and in the result have effected several important alterations.

The specific gravities of the oils are in many respects the best means we have for judging whether an oil is pure or not, because adulteration is, except in one or two cases, practised so carelessly that the adulterator is not particular about the density of the liquids which he adds. In the table opposite we give the factors which are to be recognised in the forthcoming United States Pharmacopœia, and it will be seen that in several instances the factors have undergone considerable change.

It is noteworthy that in the previous edition of the Pharmacopœia there was much uncertainty as to these factors, and the word "about" was as common as it is in the British Pharmacopœia. Its exclusion from the 1892 edition goes far to enhance the value of the work, supported as the factors are by the latest chemical tests. We shall note the more important of these.

Ol. Amygd. Amar.—Here there are two tests new to the work. First, the detection of chlorine, and, therefore, of artificial oil, by lighting a piece of filtering-paper saturated with the oil, collecting the fumes in a closed chamber containing a beaker of water, and then testing the water with silver nitrate. The absence of nitrobenzol is ensured by the sodium-bisulphite test; 5 c.c. of the oil is mixed with 50 c.c. of saturated solution of the bisulphite, and the mixture heated, when a nearly clear solution is formed, and the odour disappears if the oil is pure.

Ol. Anisi.—The Committee take the specific gravity at 17° C., and generally adopt Mr. J. C. Umney's recommendations.

Ol. Bergamot.—The characters are brought into line with recent observations, the specific gravity being made more precise, and also the solubility in alcohol (U.S.P.)—*i.e.*, 2 parts of the oil should dissolve in 1 part of alcohol, and should remain clear on the addition of more alcohol, which is not the case with lemon and orange oils. Bergamot should also leave 6 per cent. of residue (bergaptene) on evaporation.

Ol. Cajuputi.—The Dutch Pharmacopœia has secured the alteration in specific gravity, and the green colour is attributed to copper and tested for with dilute hydrochloric acid, which washes out the metal. The iodine-test is added.

Ol. Caryophyll.—It has always been considered that the specific gravity of the old Pharmacopœia was too high. Now there is incorporated a test for phenol, viz.:—Dissolve 1 c.c. of the oil in 2 c.c. of alcohol, add 1 c.c. of water. Filter, and add a few drops of ferric chloride to the filtrate; no blue or violet colour should be produced, showing the absence of phenol.

Name of Oil	Specific Gravity 1893	1882
Amygdal. amar.	1·060–1·070	1·060–1·070
Anisi	0·980–0·990	0·976–0·990
Aurantii cort.	0·850	0·860
„ flor.	0·875–0·890	0·850–0·890
„ bergamot.	0·880–0·885	0·860–0·890
Cajuputi	0·922–0·929	0·920
Cari	0·910–0·920	0·920
Caryophylli	1·060–1·067	1·050
Chenopodii	0·970	0·920
Cinnamomi	1·055–1·065	1·040
Copaibæ	0·890–0·910	0·890
Coriandri	0·870–0·885	0·870
Cubebæ	0·920	0·920
Erigeron	0·850	0·850
Eucalypti	0·915–0·925	0·900
Fœniculi	0·960	0·960
Gaultheriæ	1·175–1·185	1·180
Hedeomæ	0·930–0·940	0·940
Juniperæ	0·850–0·890	0·870
Lavand. flor.	0·885–0·897	0·890
Limonis	0·858–0·859	0·850
Menth. pip.	0·900–0·920	0·900
„ viridi.	0·930–0·940	0·900
Myrciæ	0·975–0·990	1·040
Myristicæ	0·870–0·900	0·930
Pimentæ	1·045–1·055	1·040
Rosæ	0·865–0·880	
Rosmarini	0·895–0·915	0·900
Sabinæ	0·910–0·940	0·910
Santali	0·970–0·978	0·945
Sassafras	1·070 1·090	1·090
Sinapis	1·018–1·028	1·017–1·021
Terebinth	0·855–0·870	0·855–0·870

Ol. Cinnamomi.—It is required that the oil should solidify with saturated solution of sodium bisulphite. The absence of oil of cloves is ensured by the lead and iron tests, and that of petroleum and colophony by the following simple method:—Dissolve 1 c.c. of the oil in 3 c.c. of alcohol 3 and water 1; the solution should be clear, which it would not be if petroleum were present. Next add 2 c.c. of saturated solution of lead acetate in a similarly diluted alcohol; there should be no precipitate, showing absence of colophony. The specific gravity adopted is a fair compromise, and should exclude no pure oil.

Ol. Eucalypti.—The specific gravity adopted will exclude all but redistilled *Globulus* and *cneorifolia* oils. The *amygdalina* is expressly excluded by the phillandrene test, which the oil should not give.

Ol. Gaultheriæ.—To exclude artificial methyl salicylate the boiling-point is fixed at 218–221° C., and the oil should be lævo-rotatory.

Ol. Lavand.—In the case of this and some other oils, absence of turpentine is determined by solubility in diluted alcohol (3–1).

Ol. Limon.—The specific rotatory power is given as + 60° for 100 mm. The addition of such factors to pharmacopœial characters is a commendable innovation.

Ol. Menth. Pip.—The absence of camphor and sassafras

oils is determined by adding a drop to 5 c.c. of nitric acid, when a yellow, not a red, colour is produced. The oil should crystallise when a tube of it is placed in a freezing mixture, and a crystal of menthol added to the contents, showing that it is not dementholised. Both these alterations are due to Mr. A. M. Todd's work.

Ol. Myrciæ.—A great change in specific gravity is noticeable. The fact is, the one formerly given was much too high, and admitted adulteration with ol. pimentæ. The absence of the latter, as well as clove oil, is further ensured by the following test:—Mix 3 drops of the oil with the same of strong sulphuric acid. The mixture becomes resinous in half an hour. Add to it 4 c.c. of dilute alcohol, and boil; the solution should not be red.

It is apparent from these notes that this department of the revision has received careful attention, and the work accomplished serves to carry Pharmacopœia revision a step further towards accuracy and precision, while excellent precedents are created.

FRENCH IMITATIONS OF ENGLISH PROPRIETARY MEDICINES.

It is well known to persons familiar with continental trade that certain English proprietary medicines have acquired a peculiar reputation in certain markets. It would be difficult to trace out how this has come about, and it would not serve our present purpose to deal with the matter historically even if we were able to do so. Our object at present is to show how coolly some French houses have taken advantage of the reputation thus acquired.

In certain French wholesale lists Henry's magnesia is unblushingly quoted in two lines—the "veritable" at about 2*s.*, the imitation at 4½*d.* This imitation stuff is a big trade. It is sold largely in France and in all the countries bordering the Mediterranean, and also, we believe, goes to North and South America. Of course the "veritable" is sold too, in very considerable quantities, for the fame of this medicine is quite peculiar abroad. But, judging from our information, as well as from general ideas of human character, especially of what may be called Mediterranean human character, we should suppose that the sale of the genuine is far exceeded by that of the imitation. The latter is put up in exactly the same style of bottles as those used by the makers, wrapped in the same blue paper, and bears an exact facsimile of the English Government stamp over the cork. The labels

HENRY'S CALCINED MAGNESIA
Price.2s, 9d.Stamp included
N.B.The Stamp (on which the names of the preparers are engraved.as an effectuat security to purcharsers),is now by oder of the COMMISSIONNERS OF STAMP,placed over the cork of èach bottle

HENRY'S CALCINED MAGNESIA
Price 2s. 9d Stamp included
Caution
The Purchasers of this article are requested to observe that the words "*THOS. AND WILLM HENRY* MANCHESTER," are engraved on the Government. Stamp pasted over the cork of each bottle. This is the only effectual security against the counter-feited imitations, which are sold in bottles similary moulded, under their names

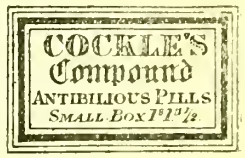
resemble those used by the Messrs. Henry perfectly in general appearance, but Frenchmen are almost certain to betray themselves when they come to print English, as will be seen from the specimens given opposite. With a correct copy in front of him, a French printer can hardly compose twenty consecutive English words without some more or less ludicrous error, as will be noticed in all the specimens we give. But the Levant or Egyptian customer is hardly likely to detect these slips. Labels, wrappers, and stamps can be bought in Paris at 60f. per thousand. Stamps can be had with or without the name of "Thomas & William Henry, Manchester," engraved on the stamp.

Steer's opodeldoc is another old English remedy which has sufficient reputation in France to be worth imitating. We copy some of the labels supplied for that. The stamps in this case appear to be supplied in plain black and white, and the outfit, therefore, comes cheaper—labels, bands, and prospectuses costing only 40f. per thousand.

Conscientious dealers who object to use Steer's or Newbery's name in this way can have a similar set of labels with the not very Anglican-looking name of Dr. Goterw, and the address of 19 Lombard Street, W.E. The Phœnix Fire Office carries on its business at 19 Lombard Street, E.C., and does not, we believe, shelter an opodeldoc-factory under the same roof.

Among other labels supplied to us from France are some for Cockle's pills, a facsimile of which we append. The text of this label differs a little from that which is now in use, but we believe it corresponds precisely with the original form of label. We are assured that these labels are no longer supplied, and we confess that our commissioner has tried in vain to purchase some. But not long ago an English pharmacien in Paris told us that a customer brought





him a box of what purported to be Cockle's pills which had been bought from a French pharmacy, and the pills in which had fallen out of shape—a circumstance which struck our informant as curious, though he did not then know that there were any spurious ones in the market.

Seidlitz-powder labels and labels for "Seltz powders" and "Sodaic powders" have also been purchased for us in Paris with wrappers. They are printed to deceive customers into believing that they are getting goods of British origin, but they do not infringe any individual's rights. We copy one of these, as well as a label of Durham mustard which falls into the same category.

The most serious part of the business is the imitation of the English Government stamp, "to imitate which is felony" in this country. These are very perfectly done, and of course assist greatly in the success of the fraud to which we are directing attention. We have some in our possession bearing the names of Messrs. T. & W. Henry, Messrs. Newbery, and Benjamin Godfrey Windus. To reproduce these in The Chemist and Druggist would render us liable to heavy punishment, but we propose to lay them before the Board of Inland Revenue, and we hope that some representations will be made to the French Government in consequence, with a view to throwing obstacles in the way of this illicit business.

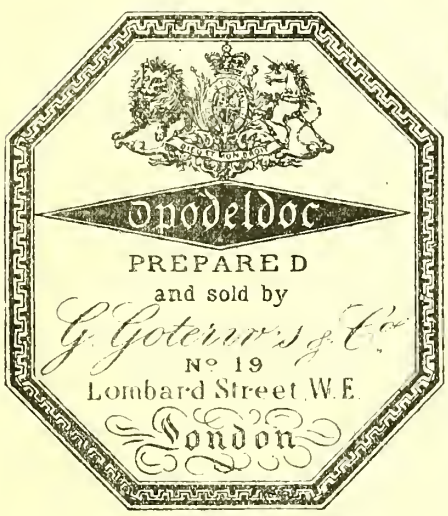
CALCINED MAGNESIA
Price 2s. 9d.
Caution

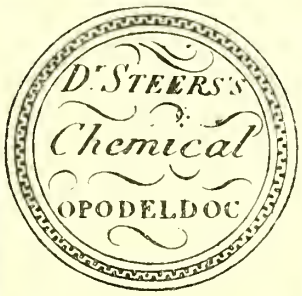
The purchasers of this article are requesied to observe that the words "CALCINED MAGNESIA" are engraved one over the cork of each bottle. This is the only offectual security against the counters feited imitations which are sold in bottles similarly moulden.

GENUINE CALCINED MAGNESIA
Price 2s. 9d.

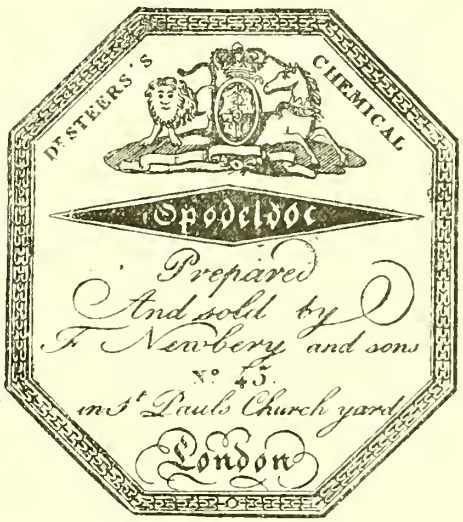
The purchasers of this article are requesied to observe that the words "CALCINED MAGNESIA" are engraved one over the cork of each bottle. This is the only offectual security against the counters feited imitations which are sold in bottles similarly moulden.

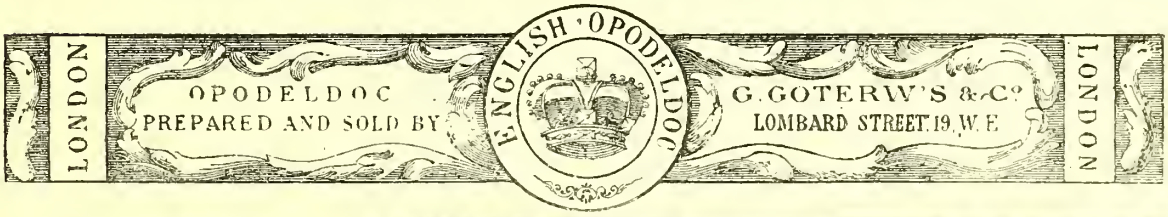


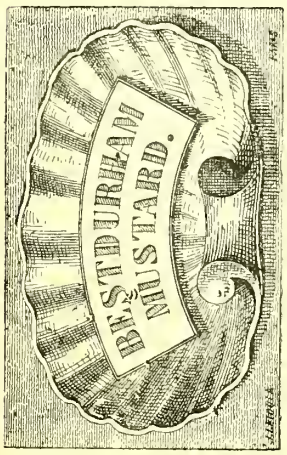


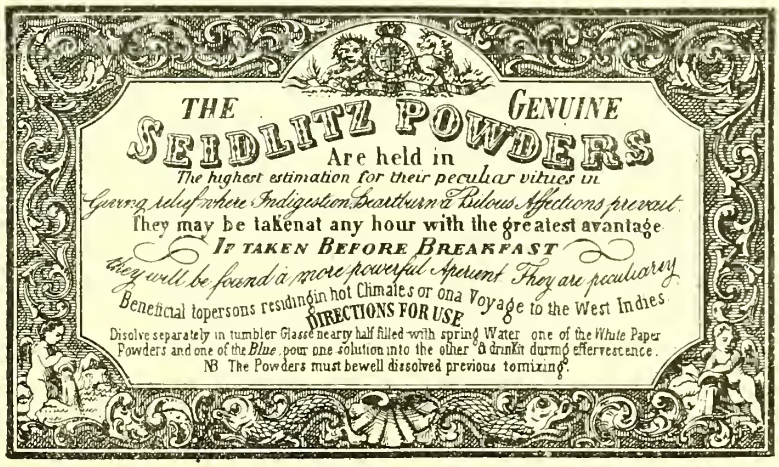












MEDICINE-CHESTS FOR INDIA.

The Indian Board of Inland Revenue have issued an order which will be much appreciated by officers in the Indian Forestry Service, whose duties take them to unhealthy and out-of-the-way localities where they are unable to obtain medical aid. The order is to the effect that medicine-chests shall be supplied to district forest, sub-divisional, and European and Eurasian range officers. The chests will also be supplied to native range officers who are willing to use them, and whose work takes them for lengthened periods into localities at a distance from dispensaries. The Conservator of Forests considers that it would be a waste of money to supply all range officers indiscriminately, as he has found during his inspections several medicine-chests in charge of native range officers stowed away with the stores. Medicine-chests are, as a rule, not to be issued in healthy districts, and to those where there are a number of dispensaries, as Tanjore and Chingleput. Indents for the supply of fresh medicine-chests are to be submitted by collectors to the Board of Revenue through the Conservator of Forests. When the chests require to be replenished, collectors and conservators of forests have been authorised to indent on the Principal Medical Store-keeper, Madras, through the Surgeon-General. Medicine-chest manufacturers should take advantage of this decision to secure the Indian Government as a customer.

THE AIR OF THE UNDERGROUND RAILWAY.

Mr. A. E. Fletcher, the chief inspector under the Alkali Acts, appends an unexpected paragraph to his report of the inspection of alkali-works in 1892, on the air of the underground railway. He cannot help wondering that steps are not taken to remove more completely the sulphurous atmosphere that pervades its long tunnels to the great discomfort of the many thousands of passengers. The movement of the trains themselves would accomplish it, were it not that the current set up by a train moving in one direction is baffled by those it meets travelling the other way. If, therefore, each set of trains travelled in a separate tunnel, or if now the one tunnel were divided down the middle by a partition of sheet iron, running its whole length, a current of air would be promoted in the direction in which the train was moving, and this would find an outlet at the first opening in the tunnel, while fresh air would follow on behind, coming in where there was an opportunity. Every following train would keep up the current of air in the same direction, and would always itself travel in fresh air, the smoke, &c., lagging behind. Moreover, the foul air, which now finds an exit through the passenger-stations, or through openings in the streets, would not then be so offensive as at present, since the larger supply of fresh air passing through the tunnels would dilute much more effectively the smoke, &c., escaping. Considering that Mr. Fletcher has occupied a large part of his report with statistics and diagrams which prove the singular attractions of Widnes, and other centres of the alkali industry, as health resorts, it is a little singular that he should suddenly become so solicitous about the comfort of the poor city people doomed to travel.

FAME ON EASY TERMS.

The "Parisian Academy of Inventors, Industrials, and Expositors" has favoured us with a request to take part in an "International Exposition of New Inventions," organised under its own honourable auspices, and which will be holden from July to October at 57 Boulevard de Strasbourg, Paris. We are, unfortunately, not in a position to avail ourselves of the invitation, but we may assist in making known the beneficent workings of this philanthropic academy. Every exhibitor, it appears, no matter what the merit of his show, may obtain (by paying for it) a "superb insignia and a gold (gilt) medal in a valuable case." To tempt inventors, facsimiles of the medals and insignia are printed on the circular, and the would-be purchaser is therefore able to see beforehand the kind of decoration he will have the right to sport in his button-hole. If he should chance to meet a fellow-exhibitor similarly bedecked the two can "wink the other eye" in silence, but the bulk of the inventor's fellow-citizens will probably be firmly persuaded that there must be something in a man who has thus been exalted by the eminent Academy of Paris. The academicians, we understand, are now also organising an exhibition of perfumery and of pharmaceutical and chemical products, but hereof no further particulars are given. They likewise issue a monthly "Official Bulletin," of which they have also sent us a copy, and which bears on its cover the names and qualifications of the "patrons" of the Society. These include professors, chevaliers, "brevetted inventors," counts, "ancien-maires," and other exalted dignitaries. The Academy tell us that they are "willing to publish an Artikel about you and your invention together with your portrait, and to send you a certain number of copies. This kind of advertisement is generaly used & has allways a large success." They do not state their terms, but these can, no doubt, be had upon application. Copies of the "Bulletin" containing the "Artikel" may be bought at 16*s.* the hundred.

MEDICAMENTS FROM OFFICIAL STORES IN INDIA.

There has been, to judge from an article in the *Times of Madras*, sarcastically headed "How Medical Stores are *not* Obtained," quite a storm in a teacup in the Indian Medical Store Department. The rumpus was caused by the rebellion of the president of one of the district boards against the action of the Medical Store Depôt in Madras, which declined to supply him with the medicines he required for the use of the officials in his administrative area. The official surgeon of the slighted district had drawn up a carefully-selected list of these medicaments, but the Madras people, instead of executing it, alleged that they were short of many important drugs, especially anæsthetics, mentioned in the schedule, and that the district which made the application would just have to do without as best it could. The district appealed to headquarters, and it was then ascertained that the Madras depôt constantly cut down or rejected *in toto* applications for drugs sent to it, on the ground that indents for medicines are restricted by the rule that demands should only be made in accordance with the previous three years' issues. This view would, of course, prevent the introduction of new remedies altogether, and would take no account of sudden increases in the consumption of certain drugs. The Government, fortunately, took a common-sense view of the matter. It stated that it considered that local bodies should invariably get the medicines for which they are prepared to pay, and that if at any time the Medical Store Department is unable to comply with an indent, the Surgeon-General must obtain sanction for purchase in the country and supply the medicines required in whatever way may be possible. If in any case application is made for expensive drugs which, in the surgeon-general's opinion, may be replaced by others of a less costly kind, he should, instead of cutting down the indent arbitrarily, address the president or chairman on the subject, supplying in the meantime, without delay, the other articles required. If the local body persists in the demand, the indent should be complied with.

THREATENED ADVANCE IN RUSSIAN DRUG-DUTIES.

The commercial relations between Russia and her neighbours, especially Germany, have been much embittered of late years by the strong protectionist tendencies of their respective Governments. The Tzar and his advisers appear to be permeated with the honest belief that Russia's best policy is to isolate herself as nearly as possible from the

outer world, and so long as the present system of government lasts Russia is therefore not likely to modify her commercial legislation in a more liberal direction. In Germany, however, the majority of the people are certainly not protectionists, and her high tariff has not even the excuse of being the outcome of an honest, if mistaken, belief that it would work in the interest of the nation at large. Still, whatever the merits of the policy, Germany is beginning to find that Russia's tariff is seriously crippling her trade with her Eastern neighbour, and negotiations have therefore been commenced for mutual concessions. But the Tzar will not hear of reducing his tariff. The "concession" he proposes to grant is to make the present tariff (of which Germany complains) the minimum one, and to prepare a brand-new maximum one, much higher still, to be used against all countries who do not treat Russia on the "most-favoured-nation" basis. The best that Germany can obtain will, therefore, be the preservation of the *status quo*; should she rebel and raise her duties against Russia, up goes the maximum rate against her goods. The maximum tariff, among other changes, declares an advance of 20 per cent. in the duties on anise, cumin, cocoa, honey, fruit-juices, vinegar, animal fats, living and dried plants, carbolic acid, colophonium, turpentine, borax, ammonia and its preparations, arsenic, opium, aromatic waters, lac, chalk, indigo, and cochineal; and one of 30 per cent. in the duties on starches, arak-rum, liqueurs, cork, indiarubber and indiarubber goods, sulphur, wine lees and tartars, prussiate of potash, chrome salts, sulphate of alumina, sodas, potashes, chloride of lime, acids, carbo-sulphates, vitriol, all medicaments, ether, plant-oils, cosmetics, soaps, tanning-materials, dyes, &c. The German-Russian quarrel only concerns this country in so far that should Russia at any time subject Germany to a maximum tariff our merchants are sure to benefit considerably; for as Great Britain, in the matter of Custom duties, treats all foreigners on the same liberal terms, she can hardly be denied the scant advantages of protectionist minimum tariffs in return. The "maximum" tariff has been approved by the Tsar, who has placed it in the hands of his Ministers of Finance and Foreign Affairs to apply when judged desirable.

THE "GARBELLING" OF SPICES.

There are probably few persons of the present generation, says the *Kew Bulletin*, who understand what was meant by "garbelling of spices," though the use of the term may still linger in the trade. The sense in which it is used in this connection is to pick, cleanse, and sort into different qualities. In the gift of books to Kew from Mr. Thomas Hanbury, F.L.S., is a pamphlet entitled "A profitable and necessarie Discourse for the meeting with the bad Garbelling of Spices, used in these daies. And against the Combination of the vvorkemen of that office contrarie vnto common good. Composed by diuers Grocers of London, wherein are handled such principall matters as followeth in the Table before the booke. Printed at London, by R. B. for Thomas Man dwelling in Pater noster Row at the signe of the Talbot." There is no printed date on the title-page, but 1592 has been added in manuscript. Apart from the information it contains on the duties and emoluments of a garbeller, this little book is interesting as a record of the various kinds of spice offered for sale at the time. Some have quite fallen out of use, and others are now differently applied or differently spelled; thus, mases (mace), gallingall (*Cyperus longus* ?), setwall (zedoary), Moreswax and Stavesacre (seeds of *Delphinium Staphisagria*). However, there was then no established orthography for many of the names, and some of them are very diversely spelled in different parts of this quaint book. The term "garbelling," or "garbling" as it is now spelt, is one of daily use in the wholesale drug, spice, and grocery trades, although its employment may probably be confined to persons connected with these vocations.

PHARMACEUTICAL EXAMINATIONS AND EXAMINERS.

Last week we noticed in our Correspondence section the complaint of a rejected candidate concerning the conduct of the last Minor examination at Edinburgh. We asked for some further evidence before publishing any criticism, and this appeal has brought us some information, but it is due to the Scotch Examination Board to say that it is not such corroboration as we should have expected if our first correspondent's indignation had been generally shared. Two letters reach us respecting the Minor examination. We publish only a part of one of them. The complaints both from London and Edinburgh, it will be seen, are from rejected candidates who, no doubt honestly enough, find it difficult to account for their failures. We do not refer to them as evidence that the examinations are not fairly or efficiently conducted. We do not believe that this can be alleged. But they go to corroborate charges of rudeness which have obtained currency in both capitals. One examiner on each board is pointed to. There can be no excuse for petulance or arrogance on the part of the examiners. They have simply a judicial duty, and they should conduct it without any disturbance of temper, on their side at any rate. If it be true that punctuality is disregarded in any part of the examination at either centre, this is a matter deserving of severe censure. We should like to have corroborative evidence of this.

CAPE PHARMACY.

The Colonial Pharmacy Board of the Cape of Good Hope have presented their first report to both Houses of Parliament there, and it is, on the whole, a satisfactory one. After recounting the steps which led up to the formation of the Board, the report mentions that as an executive committee they meet twice a month, or oftener, and during the year four general meetings were held for the purpose of examining candidates. Fourteen have been so examined, and eight passed. The Board have also decided, and the Government has agreed, that holders of the certificates of the Pharmaceutical Society of Great Britain and the Pharmaceutical Society of Ireland, and the Staats Examination certificate of Germany, will be registered in the colony without further examination. The question of admitting holders of diplomas granted in other countries is under consideration, and letters have been addressed to a large number of foreign Governments for information. In 1892 eight certificates of the Pharmaceutical Society of Great Britain were scrutinised, and the holders recommended to the Colonial Secretary for registration. The Board are taking all means in their power to acquaint persons other than qualified chemists and druggists of the law in respect to the sale of poisons; and from returns of dealers and other persons, not chemists and druggists, authorised by the magistrates throughout the colony to deal in poisons, it appears that about 120 persons have been so licensed during the year. The Board are further endeavouring to get dispensers in hospitals to become qualified, for if they do not, they may lose their positions; and, as a matter of fact, in the course of the year two dispensers had to resign because they were unlicensed. The Cape University has been approached with a view to its undertaking the conduct of the Preliminary examination required to be passed by candidates before they present themselves before the Board, and has signified its willingness to do so. It is hoped that it will be possible to arrange for the holding of the first Preliminary examination at an early date. It will be seen from these particulars that the Board are doing good work, and the only thing which appears to hamper them is their connection with the Medical Board, to which they are, in a sense, subordinate. In a very short time, the

Board will, we feel, give the Government sufficient evidence of their capabilities as to be entrusted with the management of their own affairs.

MRS. J. H. RIDDELL.

We have pleasure in introducing into this Summer Issue of The Chemist and Druggist a new feature in the form of a sort of character-sketch by the eminent novelist Mrs. J. H. Riddell. More than any living writer Mrs. Riddell has appreciated the romance, the humour, and the pathos of business life. Something like a score of her novels deal with the daily life of the City. Financial difficulties, commercial triumphs, monotonous labour, the ambitions, hopes, joys, and sorrows of the workers in this busy hive of London are depicted with the affection which Sir Walter Scott bestowed on the knights and squires of chivalric days, and are found in her hands to be capable of yielding as keen an interest. In two of Mrs. Riddell's novels, "Too Much Alone" and "Alaric Spencely," London wholesale druggists figure as prominent characters. Novel-readers, especially City men, who may sometimes be found absorbed in such literature, will certainly thank us for this note if they are not already familiar with the works of this gifted lady.

MINOR POINTS IN FRACTIONAL DISTILLATION, WITH SPECIAL REFERENCE TO EUCALYPTUS OIL.

By H. Helbing, F.C.S., and F. W. Passmore, Ph.D.

Although fractional distillation is a process easily carried out, and its general principles are everywhere familiar, yet incorrect interpretation of the results it yields is by no means unfrequent. A common source of error in determining by this process the proportions of certain ingredients with different boiling-points in a mixed liquid, lies in the adoption of the data obtained from a single series of distillations, as reliable indications of the composition of the original liquid. This is done without taking into consideration the fact that although certain fractions may be obtained from a liquid, the chief part of which goes over at a temperature corresponding to the boiling-point of certain ingredients possibly present in the liquid under investigation, yet this, of itself, does not afford satisfactory proof that these fractions really consist of the components known to have about the same boiling-point.

Experience has taught the chemist that in the fractionation of liquid mixtures made up of substances with various boiling-points, the lower fractions will always be more or less retained by the higher, so that the constituents of such mixtures can be separated with sufficient nicety to justify conclusions as to their relative proportions only after re-fractionation or even repeated carrying out of the process.

The importance of emphasising this point, though it can lay no claim to novelty, is evident from several statements which have recently appeared expressing opinions on the quality of essential oils and particularly that of eucalyptus based on the volume of different fractions which have distilled over between certain limits of temperature. The boiling-point of pure crystallisable eucalyptol lies between 175° and 176° C., but the fact that on simple fractional distillation of a eucalyptus oil it yields a large fraction boiling about this temperature is not by any means a reliable criterion of the richness of the oil in eucalyptol, quite apart from the fact that some terpenes have a similar or approximate boiling-point.

Experience has shown that sometimes very little crystallisable eucalyptol can be frozen out from a fraction of oil which went over at 175° to 176° C., even though the particular oil under examination may be very rich in the active constituent. The fractions which principally contain the eucalyptol are those taken between 178° and 185° C., and between 185° and 190° C. These observations show the importance in the estimation of eucalyptus oil of either freezing-out or carefully refractionating before any sound opinion can be formed that the oil, even though boiling between 175° and 176°, contains an appreciable quantity of crystallisable eucalyptol. What has been said of eucalyptus oil is fully borne out by work carried out in other fields not only as regards essential oils, but in the matter of tar oils and generally of mixtures of substances with various boiling-points.

THE DRUG-TRADE IN PERU.

The American consul at Callao, in tracing the causes of the smallness of the trade in druggists' goods, reports that "the cities of Lima, Callao, and Arequipa are well supplied with drug-stores kept by Germans, French, English, and Italians; and, all other things being equal, the proprietors will naturally trade with their respective countries. The inequalities as to credits and freights are an added influence against the growth of trade in this line with the United States. He has not seen a drug-store kept by an American in either of these cities, nor even an American employed in a drug-store. There are some American specialities which can be found in almost any of these stores. The trade in drugs and medicines with the States will increase only when an effort is made to introduce our most saleable products by the same studious and painstaking methods pursued by the merchants of other countries. Many could be put upon the market at once, even with the disadvantages of freights and credits to contend with, if the proper effort was made. An American Commission which, in 1885, investigated the question of the trade relations between Peru and the United States, found that many buyers in Peru objected to the visits of commercial travellers, alleging that when goods were sold by sample the shipment often failed to reach the standard of the quality of the sample." The consul now thinks that, "to obviate that difficulty, goods might be sent on commission to the best and most reliable houses until their quality is tested. There are still other ways, but this matter will be referred to hereafter. It is a matter of almost daily occurrence to find people who have become acquainted with American products in this line asking for them at the drug-stores, and he has been often asked if it were possible to procure certain American medicines in Peru. The following are the imports of drugs into Peru for the years 1890 and 1891, the latest published data, in values fixed by the tariff for levying duties, not the actual value, which is far in excess of this, he is assured, and not invoice values:—

	Soles.
United Kingdom	13,000
Germany	11,000
Italy	9,000
France	6,000
United States	1,800

Peruvian law does not permit the practice of medicine by those who have no diplomas from institutions of the allopathic school, and, although there are a few practitioners of the homœopathic faith, and with increasing patronage from the best classes, the regular Medical College of Lima has taken measures to put an embargo upon the practice. One of the leading physicians of this school is considering the advisability of removing to the United States. The move on the part of the College referred to may interfere seriously with the trade in homœopathic medicines."

Kerosene-poisoning.—A correspondent of the *Indian Medical Record* mentions a case in which a boy of 2 swallowed six drachms of kerosene, and symptoms of poisoning quickly ensued. These closely resembled those of opium-poisoning. The child had to be kept awake, and under fifteen-minim doses of aromatic spirit of ammonia every half-hour he gradually recovered.

A VAGRANT DIGESTION.

By Mrs. J. H. Riddell, Author of "George Geith of Fen Court," &c.

Chapter I.

THE REVEREND DESMOND URWICK, Vicar of Rathdundrum, had so long lived what his housekeeper called a "batchcldore," in company with many ailments, real and imaginary, that no one supposed he would ever enter the estate of holy matrimony.

For years young ladies and ladies no longer young had set their caps at him—in vain. He would have none of them. No one could persuade him to marry—no one could make him think of marrying; every one had come to the conclusion he would go to the grave unmarried, when suddenly there crossed his path a vision of delight which assumed the mundane shape of a charmer—of a certain age—not totally destitute of money. All at once the rocky citadel of his heart, which had stood many sieges and remained impregnable, surrendered. The lady came, saw, and conquered. Mr. Urwick proposed, Mr. Urwick was accepted, the pair were made man and wife. Shortly, very shortly, after which "auspicious event," Mr. Urwick's invalid fancies coming to the front even more prominently than when he was wandering along the lone, lorn road of single blessedness, he put his vicarage into commission, so to speak; left his few sheep under the care of an indefatigable curate, who had never asked himself whether he owned a liver or not, and, accompanied of course by Mrs. Urwick, started on what proved a life-search after his lost digestion.

For quarter of a century he had patted, and spoiled, and deferred to his digestion—employed his time in thinking about its wants and humouring it vagaries, and now, when it was gone—since he could not make himself happy without the wretched thing, notwithstanding all the misery it had latterly caused him—he set out, as has been said, on a quest which provided the reverend gentleman with ample occupation for the remainder of his existence.

There is no demon capable of leading a valetudinarian such a dance as a damaged liver. It is a Puck that will take him o'er "brake, bush, and scaur," across wide rivers and wider seas! It is a will-o'-the-wisp, which seems ever within reach and ever eludes capture!

Some happy people there are who can enjoy such food as Heaven sends them and be none the worse for it afterwards—who can go to bed at midnight and sleep soundly till morning—who can walk after dinner and sit after supper and be not a bit the worse for walking or sitting; but the man who has once lost his digestion has lost his peace of mind and body for ever and a day. In church, at club, funeral, or merry-making, his truant liver is ever tempting him far afield. It is there, it is here, it is somewhere else, it is over yonder—it entices him south, west, east, and north. There is always some land a little further away where it and its owner may dwell together on terms of the closest intimacy, but when the traveller touches that shore of golden promise he finds his digestion has taken its departure.

Evangeline's journeyings were short and pleasant when compared with those Mr. Urwick undertook in search of his refractory liver. Gabriel never desired to elude her pursuit, whereas, on the contrary, there was nothing Mr. Urwick's digestive organs wished less than to be reinstated in a whole and healthy condition in that gentleman's body.

They knew far too much of the way he had "put upon them," when at his beck and call, to view with equanimity any close relation with him in the future.

It was, indeed, the awful way in which he had worked them, and the long hours he demanded, which first induced remonstrance on their part, and then a final strike.

On his side Mr. Urwick also made a very false move. He gave in at once, and capitulated without firing a gun. No mistake could have proved more fatal. A man ought to treat his liver fairly; but he never should take it into confidence.

The moment he begins to consult it concerning what he ought to eat, drink, and avoid, his liver begins to despise its nominal owner, because a digestion ought to serve a human being; a human being ought not to be the slave of his digestion, which is, indeed, the best of good servants, but the worst of bad masters. Let it once get its head, and you had far better have a runaway horse to deal with.

The spectacle of a man wrestling with imperfect powers of assimilation is not a sight calculated to give anyone a lofty idea of his species. In fact, when a person says to his internal economy, "Now what would it be wise for me to eat?" that person has physically committed an act of bankruptcy.

In the next world, where, we would fain believe, digestions, like the wicked, cease from troubling, there may be hope for him, but in this imperfect state, none.

That unwise person will go on from bad to worse, till even the innocent sole presents terrors to his imagination, and a new-laid egg a front more alarming than a regiment of dragoons.

How circumstances change cases!

Once upon a time the Reverend Desmond Urwick had been a noted preacher, who, before he quarrelled with his liver, thought nothing of standing up in the pulpit and doing battle with Satan and all his hosts. In the later days he was glad to creep out of church and take train, or boat, or carriage anywhere he might perchance meet once more with that lost digestion, possessing which he felt he could combat many legions of devils, but wanting which he was unable to sip a cup of tea, or slowly munch a slice of thin dry toast in peace.

This was the real reason why Mr. Urwick after marriage boxed the compass in search of health. At fifty-eight he wanted to find and make up friends with the liver he had known at five-and-twenty—a liver content and cheerful with anything that was given it; a liver able and willing to do its duty; a liver with no nonsense about it; on good terms with all other parts of the body to which it appertained; a specimen liver, in fact, and not the stupid, ill-conditioned, crochetty liver it afterwards became before it disappeared altogether.

Mrs. Urwick had not been prepared to encounter such a liver, or, to speak more correctly, she had not been in the least prepared to encounter the consequences that result from the absence of any liver whatever. She had gone to the hymeneal altar cheerfully and with a good courage, but it seemed to her, naturally, quite another thing to go to the sacrificial altar.

It was certainly hard upon a lady of sprightly disposition, engaging appearance, and agreeable manners to find she had bound herself not only to humour an invalid till death did them part, but to accompany him over the world in a vain search for health—a goodly portion of which he might have secured just as easily at Rathdundrum.

It was the old housekeeper aforementioned who welcomed her new mistress with effusion that first opened the lady's eyes to what lay before her.

Said the faithful if too candid retainer:

"I'm glad, mem, the master has got somebody whose bidding he'll mind to look after him at last, for he is as full of fancies as an egg is of meat."

At the time Mrs. Urwick unjustly regarded this remark as

most impertinent, but she afterwards found it was a most clever observation.

The reverend gentleman was, indeed, fuller of fancies than any egg—even an ostrich's—of meat, and it seemed to poor Mrs. Urwick that after her brief honeymoon was over not a day passed without some further and stranger revelation of her husband's idiosyncrasies being vouchsafed to her.

She liked society, and he hated it; even the chastened and improving conversation to which, as a clergyman's wife, Mrs. Urwick might fitly listen, and in which, also, as a clergyman's wife, she might fitly join, was pain and weariness to the Reverend Desmond.

He had talked, and thought, and read about his symptoms, till one disease became multiplied by fifty. To what remedy had he not pinned his faith? What drug had he not tried? Indeed, it would be impossible to say—for having long emancipated himself from medical control, there was no new nostrum, no much vaunted pill, or elixir, or tonic, or oil, or extract, which the proprietors saw fit to advertise or puff enough, of which he failed to test the virtues.

There was scarce a health resort either he had not tried and found wanting.

The cooking in one place did not please him, the air in another, the water in the third, the drainage in the fourth, the wind in the fifth, the want of wind in the sixth, and so on, with every ridiculous objection his captious mind could devise.

The "happy pair" went to Harrogate, Scarborough, and a dozen other watering places in England, to the German Spas, to the Riviera, to Spain, Algiers, Italy, Switzerland, with precisely the same result. Then, as Mrs. Urwick declined to go on pilgrimage to Jerusalem, the Reverend Desmond had all but banded himself to proceed thither with a party of Cook's excursionists, when meeting a man who told him that out of heaven there was no climate so healthy as that of San Francisco, or city so beautiful, he changed his plans, and decided to proceed thither.



What drug had he not tried?

"No place to equal it in the world," said his new friend. "You only go out there and you will never wish to come back to Europe." With much more to the same effect which inspired Mr. Urwick with such wild hopes of recovering his lost digestion, that, greatly to the disgust of his wife, who had ensconced herself in comfortable Dublin lodgings, and was preparing for a pleasant social campaign, the worthy Vicar, without beat of the drum, or even warning telegram, rushed in one morning and announced his intention of forthwith repairing to California.

As the greater includes the lesser, Mrs. Urwick with a sinking heart, understood that she too would be expected to pack up at once and start also for the finest climate on earth.

Not now could she plead that among a select party of Cooke's excursionists her husband might meet some sympathetic individual possessed of no liver worth mentioning, with whom he could hunt the Holy Land over in search of a digestion not given to stick at trifles—a sort of "slave" of a digestion, equally willing to grapple with crabs or candle, cheese or porridge, lobsters or gruel—ready, in fact, to undertake any position of trust, and make as good a fight against stone fruit, as, in the old days departed, poor dilapidated Mr. Urwick had waged against sin.

Yes, if he went she would have to go also, and the prospect did not seem pleasant to a lady who liked accustomed places, familiar people, and association with county-folk.

California seemed to her as dreary as the great and terrible desert to the children of Israel.

But she was a nice little woman, who never went into a passion. She could not if she had tried. It was this pleasing equability of temper, joined to good looks, and a snug fortune, which captivated Mr. Urwick.

"I think," she said, in answer to her husband's announcement, "that if you go to San Francisco you will have to resign your living. Here is a very peremptory letter from the bishop."

"Never mind the bishop," answered Mr. Urwick; "what is a living when compared with my health?"

This conundrum the lady was much too astute then to attempt to solve. She only remarked with a fine though unconscious sarcasm:

"It might be well for you to read what the bishop says, at all events."

Mr. Urwick did read, and the pride of his defiance changed.

After all, it is one thing to speak in one's own home disparagingly of the powers that be, and quite another to defy them openly. More, how little soever a living may seem worth while a man is enjoying the revenue, the little has a knack of growing greater when it appears in danger of disappearing altogether.

"And so the end of it was," remarked Mrs. Urwick subsequently, "that I had to give up my pretty rooms and go back to Rathdundrum; not to stay, however; thankful, indeed, should I have felt to be allowed to stay anywhere."

"Sir dear, but you do look bad," was the old housekeeper's sympathetic remark when, having joyously welcomed her mistress and the Reverend Desmond home again, she ushered them into a spacious drawing-room where two bright fires were burning—the day being dull and chilly, as many summer days are in Ireland—"Sure, you might as well have stayed at home if that is all they could do for you in foreign parts."

To an invalid there is nothing more exasperating than domestic criticism, and Mr. Urwick waxed irritable accordingly.

"I wish you would not talk about matters you do not understand, Mrs. Ryan," he retorted, testily. "I am much better than when I left Rathdundrum"——

"You have strange way of showing it, then, sir," she replied, absolutely undaunted.

Mr. Urwick drew an easy chair up to one of the fireplaces, and, sinking into its luxurious depths, remarked, when Mrs.

Ryan left the room, "That woman is intolerable, Julia; she is a perfect savage."

"She means well"——

"It is astonishing how badly people always do—who mean well," he returned snappishly, for he was in a very ill-humour indeed, in one of those moods when, as Mrs. Ryan truly observed, "The saints above alone know what would please him."

Nothing pleased him that day at all events. He said the soup was not good or the fish fresh, that the true way to spoil a fowl was to boil it, that if there were one thing he disliked more than another it was a mutton cutlet; and, having found fault with every dish on the table and with Mrs. Urwick for not doing likewise, he made an uncomfortable meal off potatoes and butter and a glass of milk.

Evidently poor Mrs. Ryan had, with the best intentions, done extremely badly.

Chapter II.

For two whole months Rathdundrum was blessed with the presence of its Vicar, but he might as well have been in California for any good he did his parish or himself.

Aforetime he had read the Lessons—now he would not even do that. While the curate preached he sat with his legs crossed and eyes closed, his thoughts flitting from land to land after that lost digestion which had served him so scurvy a trick. He rarely left the house except to take a run up to Dublin. He said he was not well enough to go out, but when the fancy seized him he managed to drive to the railway station and travel a hundred miles without the slightest difficulty.



Miss O'Ginnis told him all she had suffered.

An inveterate diner-out in the palmy days before he and his liver had that furious difference which terminated friendly relations between them, it needed all Mrs. Urwick's powers of persuasion to induce acceptance of any invitation even from the oldest and kindest of his friends, and after he had accepted he was often wont to indulge in a maddening habit of backing out at the eleventh hour; indeed, it was on record that on two occasions he bade the coachman turn back from the very gates a lodge-keeper was about to open, which all seemed very trying to Mrs. Urwick, who was fond of society and loved pleasant parties.

On one occasion, however, when they had been bidden to a house noted for the best wine, the best cook, and the most cordial and unaffected hospitality in the County, Lady Mary Blandy absolutely refused to take Mr. Urwick's "We cannot, indeed!" for an answer.

"Nonsense!" she said; "you must come! My husband told me to make you promise. We can put you up for the night. You may wear your dressing-gown if you like"—Mr. Urwick was, indeed, talking to her ladyship in an old and faded garment of the description she indicated—"only you must not say 'No!'"

The Vicar did not say no; neither did he refuse to array himself in orthodox costume. He went, and enjoyed the evening greatly; for after the ladies left the dining-room he fell into a most interesting conversation with a gentleman who had suffered from the vagaries of his liver likewise, and blessed homœopathy for having delivered him from the woes indigestion had caused his internal economy. They compared symptoms and capped diseases to their heart's content. All Mr. Urwick felt his new friend had experienced, only in a more intense form. Allopathy had brought him to the brink of the grave. Homœopathy had, if he might be allowed the expression, brought him back from the grave. "Go to my doctor—finest fellow in the world; and before you are three months older you will feel you have taken a fresh lease of life."

Mr. Urwick had not the slightest intention of going to "my doctor" or to any doctor. All doctors were abhorrent to him, because they thought they knew more about his ailments than he did, and gave him rational advice—a thing the Vicar's soul loathed. Nevertheless, he delighted in talking about his liver as a lover to speak of his mistress, and, consequently, enjoyed himself thoroughly.

And further enjoyment was in store, for he had not been in the drawing-room five minutes before a lady, lately converted to "hot water," said she felt so sorry to hear from their kind hostess he was in delicate health. For many years her own health had been far from good, and for that reason she could sympathise with anyone in like case.

That was quite enough. The freemasonry of a pet disease makes men and women brothers and sisters all the world over. Had the lady and Mr. Urwick been twins they could not have interchanged experiences more unhesitatingly. They drew their chairs close together, and talked with a confidential earnestness which might have aroused Mrs. Urwick's jealousy had she not known only one theme was capable of interesting her husband.

Miss O'Ginnis told him all she had suffered by reason of the "stupidity" of doctors. Mr. Urwick told her, though in more eloquent language, that "afflictions sore long time he bore," and found all physicians vain.

He had discarded physicians, and tried every remedy he could hear of: but he still suffered. If he could only live without eating, he thought he might recover; as it was he only ate enough to keep body and soul together, though sometimes he was so hungry he felt as if he could eat——

"A donkey stuffed with a foot soldier," finished Admiral Blandy, who chanced to be close at hand.

Mr. Urwick stared at the interruption, and the Admiral said, "Never mind, old chap; no offence meant." Miss O'Ginnis giggled and then remarked, "It is no laughing matter, though."

Mr. Urwick agreed it certainly was not; "but then," he added in a fine Christian spirit, "people do not understand."

"They do not," said the lady eagerly; "that is the worst of it."

"When a man feels as if the earth were rising under his feet.'

"Ah! don't I know!" sighed Miss O'Ginnis; "and as though everything were going round and round, and he has to catch hold of the nearest chair or table to steady himself. How often I have experienced that awful sensation!"

"And then the utter prostration," went on Mr. Urwick, warming to his theme.

"When you might, for all strength left, be a drop of dew dissolving on the earth," added Miss O'Ginnis, whom the remembrance of her sufferings made almost poetical.

"When you might be anything or nothing," amended Mr. Urwick.

"Do you know what cured me?" asked the lady, feeling her time had come. "Hot water."

"I gave hot water a fair trial; it did not benefit me one particle."

"Perhaps you did not take it hot enough."

"I did, as hot as I could without scalding myself."

"Ah! there it is, you see: to be of any use the water must be boiling."

"How could anyone drink boiling water?" asked Mr. Urwick.

"In sips—it is quite easy when one gets accustomed to it. I sipped four tumblerfuls a day for three months, and at the end of three months was as well as I am now; and what do you think my doctor said when I told him?"

"I can't imagine. Something very foolish, no doubt."

"Something very rude you may be sure: 'FIDDLE-DE-DEE!!!'"

"Just like them," groaned Mr. Urwick, immensely interested.

"So prejudiced," remarked Miss O'Ginnis.

"So jealous," observed Mr. Urwick; and then there ensued a silence, which was, contrary to custom, broken by the gentleman.

"I should much like to learn," he said in a voice low and confidential, as though he had been asking Miss O'Ginnis to marry him, "how to take a tumbler of boiling water in sips."

Miss O'Ginnis explained. She told this promising disciple how he ought to have a spirit-lamp and kettle in his dressing-room; how he must keep pour, pour, pouring, and sip, sip, sipping; how he would get quite to love the health-giving beverage; how the whole process really did not occupy much time when once the patient became expert, and caused no trouble whatever.

"I will send to Dublin for a spirit-lamp to-morrow," said Mr. Urwick, carried away by Miss O'Ginnis's enthusiasm.

"And do not forget the kettle also," said the practical lady.

The time which ensued at Rathdundrum while the boiling-water cure was in progress, to quote Mrs. Ryan's words, "beat everything."

Mr. Urwick could not depend on himself in the least. He either omitted to light the spirit-lamp at a proper hour, and breakfast had to be delayed till he had poured and sipped the needful quantity, or he commenced operations quite early, and then fell fast asleep, leaving the kettle to boil away at its own sweet will, which it did with such energy that at last the bottom was burnt out.

Then he insisted on keeping up a fire in drawing-room, dining-room, and library, so as to have a constant supply of scalding water at his hand, which supply he almost invariably contrived to upset.

"God forgive Miss O'Ginnis," said Mrs. Ryan. "Little she knew what she was doing on us."

Mrs. Urwick said nothing; but she, no doubt, thought a good deal.

"My dear, what are you going to do about your husband," asked Lady Mary Blandy, when August was nearly over.

"Indeed, I do not know," answered Mrs. Urwick plaintively.

"But you ought to know," declared her ladyship, "because if some steps are not soon taken, it is impossible to tell what the end may be."

Mrs. Urwick did not answer; she felt that she, at all events, was quite unable to forecast what the end might be or whether any end at all might come.

"When we heard he was going to be married we were all, as you know, delighted. We formed great hopes of what a wife such as you would effect."

"I hoped many things, too," observed Mrs. Urwick simply. "I thought he wanted more care than a housekeeper could possibly have given, and I was vain enough to think I should be able to nurse him back to health; instead of which"——

"He is going on from bad to worse," finished Lady Mary, as the other stopped. "The fact of the matter, is you are far too fond of him, you sweet good creature, and give in to him much more than is wise. What Mr. Urwick requires is ROUSING. He needs to be taken out of himself. Rathdundrum is death to anyone in his state of health. Here he just sits all the day long brooding over his ailments."

Mrs. Urwick mildly insinuated that was precisely what the Vicar did wherever he chanced to be. She ran over the names of a few of the places they had visited in search of that lost digestion. She mentioned what the doctors she herself had called in said. She touched lightly on the proposed short excursion to Jerusalem and the longer journey to San Francisco, nipped almost in its conception by an unsympathetic bishop; and finally she said, with tears in her eyes, "I am sure I cannot tell what I ought to do."

"I can," declared Lady Mary, with conviction. "You ought to take him to Mrs. Jack Hill."

"And who is Mrs. Jack Hill?"

"The very nicest woman that ever lived. She is a cousin of Lord Bobadil's, and she keeps a sort of glorified boarding-house at Bruscane, near the mouth of the Shannon. She is a perfect darling, and as brave as a lion. When poor Jack died, and left her with three children and only seven hundred pounds between them all and the workhouse, she took a delightful old place in her native town, and, as I have said, started a boarding-house, the success of which has been something phenomenal. It is really more a well-appointed home, always filled with charming people, than anything else. The Bruscane climate is superb. Take your husband there for the winter, and he will be a different man in the spring."

"Perhaps you would talk to him," suggested Mrs. Urwick: "he does not attach much importance to what I say."

"That is because you are such a little goose," said Lady Mary, not unkindly. "Yes, I will talk to him," which her energetic ladyship did to such purpose that Mr. Urwick—who, having arrived at the conclusion boiling water and Miss O'Ginnis were both humbugs, had seriously begun to think of giving "my doctor" a chance of distinguishing himself—was finally persuaded to give Bruscane and Mrs. Jack Hill a trial, though "I have little doubt," he said confidentially to his wife, "Mrs. Hill is only some poor relation of her own, into whose pocket Lady Mary wants to put the money she thinks Mrs. Jack, as she calls her, will be able to screw out of us. We will give the place a trial, however, Julia. If we don't like it we need not stay—that is one comfort."

"No, we need not stay," thought poor Mrs. Urwick; "that is the great discomfort."

CHAPTER III.

MR. URWICK had made a mistake, not for the first time in his life. Lady Mary Blandy was in no way related to Mrs. Jack Hill, and mentioned Bruscane solely because her kindly heart felt grieved to see an old friend sinking deeper and deeper into a state of depression which made him a burden to himself and a nuisance to others

Most honestly she believed all he required to effect a cure was ROUSING, spelt with capital letters; and knowing Mrs. Hill's house to be charmingly appointed and admirably managed, she rejoiced when Mr. Urwiek gave a somewhat ungracious assent to the proposal that he should try what Bruscane might be able to effect in the way of reconciling him and his liver.

"And the change will do you a world of good," said Lady Mary to Mrs. Urwick. "There are always a number of pleasant people staying at Mrs. Hill's."

"But my husband does not care to mix with strangers, no matter how pleasant they may be," was the answer.

"Bruscane will soon change all that"—an optimistic view of the future Mrs. Urwick wished she could take.

The "pleasant people" so confidently referred to who were to help forward that good work of ending the long-continued stife of Mr. Urwiek's liver were, as it happened, just then nine in number, who on the evening before Mrs. Hill expected her two new inmates were assembled round the dinner-table in a cheery, old-fashioned room. They were a fairly merry party. The men and women who came to Bruscane for change of scene, having as a rule little on their minds and less in their heads, were merry accordingly.

Mrs. Hill occupied the seat of honour, and faeing her was Mr. Monro, a barrister, who, having relinquished his lawful profession, made a fair income by writing smart articles for such papers as believed in him. Of the eight other persons present one was Mrs. Monro, wife of the foregoing; a second Miss Stewart, a spinster who had been everywhere, seen everything, and knew everyone; two sisters, the Misses Bessie and Georgie Wood, of an uncertain age, but very certainly flirts; Mrs. Arthur Latchmerc, a young and comely widow, matronised—if the phrase be permissible—by her uncle, a man dominated by only one idea—viz., the utilisation of rain-water; Miss Gordon, an exceedingly handsome blonde, and her brother, thin, not tall, short-sighted, reputed to be the shyest man in Europe, and one whose mission it was to carry his sister's cloak—bought in Paris—and be scolded for his stupidity in season and out of season.

Such were the materials wherewith Lady Mary confidently believed Mr. Urwick's physical regeneration was to be accomplished.

"And who, Mrs. Hill," asked Mr. Monro, who had been absent for a couple of days, "is this reverend gentleman in whose favour you tell me I must abdicate a post I have filled for some time—and vanity whispers in a satisfaetory manner?"

"Mr. Urwick."

"Not Desmond Urwick?"

"The Vicar of Rathdundrum?" exclaimed Mr. Monro and Miss Stewart in a breath.

"Do you know him, then?" asked Mrs. Hill, a little surprised at the Rev. Desmond's fame.

"Rather!" answered Mr. Monro.

"I met him and his wife at Nice," explained Miss Stewart.

"I know him well," said Mr. Monro.

"Do tell us all about him," entreated Miss Georgie Wood, smiling sweetly on the barrister. "Is he a remarkable man?"

"In his way, very remarkable."

"And what is his way, you tantalising creature? Is he clever?"

"Yes—or, at least, he used to be."

"Lively? Miss Stewart, please, do enlighten us. Is he clever?"

"Certainly not," said Mr. Monro, answering for the lady. "Yet he is often the cause of liveliness in others. Fact is, he is a man possessed by a CRAZE. He believes he has lost his digestion, and is always wandering about the world in search of it. If any lady or gentleman have seen a stray liver—if I may mention such an organ—running loose about the parish, our friend will be after it like a shot."

"What does the poor fellow eat?" asked Mrs. Hill, with a kindly view to Mr. Urwick's comfort.

"GRUEL," said Miss Stewart, solemnly.

"Let us all have some gruel," exclaimed Mrs. Latchmere, quoting Mr. Woodward in "Emma."

"Or an egg boiled very soft is not unwholesome," added her uncle, drawing from the same perennial well. "My dear Mrs. Hill, I am afraid you do not know what you have let yourself in for."

"I am not afraid," answered Mrs. Hill cheerfully, "it was Lady Mary Blandy who advised Mr. Urwick to come here. She has known him for years."

"Save me from my friends!" ejaculated Mr. Monro with such fervour that Mrs. Hill began to feel a little uneasy.

"Is his wife a nice person?" she asked, clutching, as people are wont, at any straw of comfort.

"His wife has the reputation of being a very agreeable woman."

"She *is* very nice, and very agreeable," interposed Miss Stewart, with the air of one having authority.

"She has many good qualities, no doubt," admitted Mr. Monro, "the chief among them being that she is in all ways the antithesis of her husband. She is short as he is tall stout as he is thin, talkative as he is taciturn. If he have no digestion, her assimilating powers are worthy of all admiration. She is good-tempered to a fault, and endures her husband's peculiarities with the patience of a saint."

"That is the sort of wife you would like, Mr. Gordon?" said Miss Wood to her neighbour.

"Yes it is, Miss Wood," replied Mr. Gordon with unwonted spirit, for the fair Georgie had been making a dead set at him.

"Urwick never voluntarily stays at home, and yet nothing from home pleases him," went on Mr. Monro, who dearly loved the sound of his own voice. "He won't be five minutes in this house before he finds it is too hot or too cold, too much exposed to the sea, too much sheltered by the hills. He will say the rooms are too low and too large, the hall in the wrong place, the situation of the town a mistake. It is all owing to that confounded liver. Twenty years ago, I believe, Urwick was a very decent sort of fellow, but now he has got to a state in which he would like to carry his bed about with him, to have a certificate skewered in the gizzard of every fowl declaring it never had roup, and to compel all grocers to have each separate pound of tea analysed. He has made a god of his health, and his god has turned and rent him. On the whole, Mrs. Hill, I really do not think there will be any need for me to abdicate in Mr. Urwick's favour."

No more tender or sympathetic woman ever lived than Mrs. Jack Hill. She felt so convinced her expected guest must be in a much more serious state than Mr. Monro imagined that she devoted a large part of the following afternoon in trying to make one of her pleasantest bedchambers gay and cheery for the invalid.

She arranged vases filled with bright autumn flowers, draped her mirrors afresh, and put bows of pretty ribbon just where she thought a touch of some soft colour might prove a grateful relief to his tired eyes, had the finest linen fresh from its lavender-scented cupboard laid on the bed, the most comfortable armchair drawn forward to the hearth.

A cold mist was creeping up from the Atlantic; therefore a bright fire burned in the grate, and in the soft gentle twilight the room looked as cosy and as much like home as room ever did.

"There, ma'am, I think we can do no more," said old

Ann—so called, though not fifty, by reason of the many estimable qualities she exhibited. "And a finer turbot than Denny sent up to-day I'd never desire to see; and as for the grouse, it is a perfect picture. I'm sure the poor gentleman ought to get fat and well here."

The "poor gentleman" at that moment was in a very bad temper—one of his worst tempers, in fact—walking to Sea Hall from the mail-car, supported by his wife and followed by a lad wheeling their luggage.

He walked very slowly and groaned a good deal—a bad sign, as Mrs. Urwick had learned from experience.

Little dreaming of what was in store, Mrs. Hill, when she saw the procession arrive, went into the hall intending to speak a word of kindly greeting, but Mr. Urwick would have none of it.

"You are very out-of-the-way here, ma'am," said the invalid, cutting short her welcome with a rudeness peculiarly his own. "If Lady Mary had told me what an endless journey it was to Bruscane, I would never have adventured to come."

"My husband is so sadly delicate," cooed pleasant, courteous Mrs. Urwick, who, in her anxiety to make amends for her husband's incivility, had become, after years, one of the most accomplished of liars; "the least fatigue"——

"Where am I to hang my coat?" demanded the Reverend Desmond brusquely, breaking across the implied apology. "How does it happen you have pegs immediately over this table? No one could hang a coat there."

"There are such a quantity of wraps we always throw everything over the railing," said Mrs. Hill in her clear well-bred voice—iced, for she felt horribly affronted—pointing to a wide balustrade which ran from the old oak staircase across the spacious hall.

"Humph!—most inconvenient; you ought to have some better arrangement. Lead the way to our room, will you?" he continued, addressing a maid who took his coat. "I will go to bed at once, Julia. It is the only safe place, I am sure."

"Very well, dear," said his wife, and the pair passed upstairs together, leaving Mrs. Hill to walk like an offended queen into the drawing-room.

"Well!" said Mr. Monro, who had overheard the conversation, "what did I tell you?"

"I wonder if he is always like this."

"Pretty generally, I imagine."

"Then I heartily hope he may stay in bed for the whole of his visit."

"More improbable things have come to pass," was the consolatory answer.

After he had set the windows and doors wide, tossed the flowers into the night, raked out the fire, filled the whole house with smoke and sulphur, changed the position of every article in the room, shifted the pillows and bolster from the head of the bed to the foot, Mr. Urwick, satisfied with himself, if not with the world, retired to rest.

The dinner-bell rang, but neither Mr. nor Mrs. Urwick took any notice of the summons.



"Where am I to hang my coat?" demanded the Reverend Desmond brusquely.

A maid was sent up. Mrs. Urwick was so grieved, so distressed; but she was not quite ready. She would be down shortly. Meantime she begged dinner might not be delayed on her account.

"I suppose we had better wait?" said Mrs. Hill, tentatively.

"Wait!" repeated Mr. Monro. "Certainly not. If Urwick has lost his digestion, I do not intend to jeopardise mine. Allow me, Mrs. Latchmere," and he marched across the hall followed by all the company.

"How much obliged we ought to be to Lady Mary Blandy for sending us such a genial Vicar!" said Miss Georgie Wood to Mr. Gordon. "I wonder if he dooms his poor wife to starvation whenever he feels disinclined for dinner?"

"She will be down presently," said Miss Stewart, in the tone of a person who knew all about everything, and a little more.

"Just to snatch a mouthful," added Mr. Monro, playfully mimicking the absent lady's voice and manner. "Ah! if ever there were a woman who knew how to make good use of her time, that woman is Mrs. Urwick."

"I think you are extremely ill-natured," said Miss Stewart, laughing, nevertheless.

"I did hope he would have enjoyed the turbot," sighed Mrs. Hill.

"We do, which is of much more consequence," observed Mr. Monro.

"I am very glad: but, still, I wish he were well enough to enjoy it too."

"That is a most Christian feeling towards such a bear! Now, confess, Mrs. Hill, did he not put up your back this evening? I know he did, though you endured his impertinence like a saint. You were ruffled. I was delighted, for I do not think I ever saw you ruffled before."

"I was," she admitted, "and I ought not to have been. One should make every allowance for illness."

"I think illness should make every allowance for health," returned the barrister—a sentiment which was greatly applauded; and the talk about the Reverend Desmond flowed smoothly on till Mrs. Urwick arrested the stream by entering prettily attired—all sweetness, apologies, and smiles.

"Dear Mrs. Hill, I am so sorry," she began in her most engaging manner. All her life long she was "a most attractive" person, and anyone unaware of the fact that she had been brought up by and lived till nearly forty with a very Cerberus of an aunt who, considering all lovers as creatures of the Evil One himself, kept every aspirant for her niece's hand at bay, might well have marvelled why she was permitted to remain single for so long—"so very, very sorry," she cooed even while fluttering to her seat and bowing genially to all the "pleasant" people Lady Mary Blandy had guaranteed would do her so much good. "I am sure I do not know how to apologise sufficiently, but the journey was really very fatiguing and my husband is so fragile. And pray have nothing brought back for me. I have never a large appetite. I will just snatch a mouthful."

It was too much for Georgie Wood. She put her hand-

kerchief to her face and laughed silently till the chair shook under her—till she infected Mr. Gordon, who upset his wine—till the merriment spread round the table, and at last one irrepressible peal of mirth burst on the astonished ears of Mrs. Urwick, who looked as if she thought she must have strayed by mistake into a lunatic asylum.

"It was a story I had been telling about grouse-shooting," said Mr. Monro mendaciously, "and the full humour of it has just burst upon my intelligent audience. I will tell the tale to you, Mrs. Urwick, when you have had something to eat."

"Yes, do pray try to eat. You must be quite exhausted," said Mrs. Hill, genuinely distressed.

"I will see to Mrs. Urwick—we are quite old friends, as I mentioned last evening. Let me give you a little of this fricassee—it is admirable. And while you judge of its quality I will try to amuse you with my grouse story; but, no; I don't think, as everyone else has heard it, I will just now. Some other time"—and so he rattled on, talking about nothing, but entertaining Mrs. Urwick very well, till the ladies adjourned to the drawing-room, where Mrs. Latchmere was about to play that "sweet thing of Schumann's" for Miss Stewart's delectation, when Georgie Wood, noticing the cloud on Mrs. Urwick's brow, said, "Perhaps it might be better not to have any music to-night," thus vaguely indicating it might be necessary not to have any music for many nights.

As usual, Mrs. Urwick became gratefully apologetic. "It was so good of Miss Wood, so sweet of Mrs. Latchmere. When Mr. Urwick was pretty well no one enjoyed music more than he; but if his sleep were broken—and the least sound aroused him—he was absolutely fit for nothing the next day."

Miss Stewart said sympathetically it must be terrible for anyone to fall into such a state of health—or, rather, of "no health"—and Mrs. Hill began to feel appalled at the prospect of what lay beyond.

If a pin dropping broke Mr. Urwick's slumbers, how could he contrive to sleep at all in that house—how, in fact, did he manage to sleep in any house? with many more questions to the same effect incapable of answer.

Despite Mrs. Urwick's sprightliness and Mr. Monro's reminiscences, it seemed a long evening—the longest, Mrs. Hill thought, she had ever known—and it proved a relief when the parlourmaid, entering, delivered a message to Mrs. Urwick intimating "the gentleman wanted her."

"Poor creature!" said Miss Stewart, as the dutiful wife ran upstairs.

"My music is not in fault, at any rate; that is one blessing," remarked Mrs. Latchmere.

"It would, perhaps, be well for us all to migrate to the Hotel so that this house might be left absolutely quiet for the invalid," suggested Mr. Monro.

"Then where would he find the cheerful society which Lady Mary promised, and which she felt certain was all he needed to re-establish his health?" asked Mrs. Hill.

"The only society Mr. Urwick desires is his own. I remember seeing him at Baden, where he kept rigidly aloof from everyone and everything," explained Mr. Monro.

"I vote," exclaimed Georgie Wood—everyone called her Georgie after about half-an-hour's acquaintance—"I vote we despatch a round robin to Lady Mary Blandy praying her of her mercy to send us no more invalids."

Meantime poor Mrs. Urwick was having a very bad five minutes.

"Do you know what I think I could fancy?" asked a faint voice as she entered—a faint voice speaking through the darkness.

"No, dear," said Mrs. Urwick, narrowly missing an ignominious tumble over a chair.

"I believe I could eat a morsel of sweetbread!"

"A what?" exclaimed the lady, aghast.

"A morsel of sweetbread with a glass of champagne."

"But, my dear, it is past ten o'clock at night."

"Oh! of course the moment I express a wish for anything some objection is raised. I may lie here and die of starvation for aught you care."

Mrs. Urwick thought of all the offers of refreshment that had been made to him earlier in the evening and contemptuously rejected, but she said nothing, only with a deep sense of abasement turned and left the room. This was what she had married for—to dance attendance on a craze; to sink her own individuality for the sake of humouring a man's whims; to be required to hear nothing, think of nothing, year in, year out, save a hateful organ called "digestion," which was at that moment crying aloud—of all likely and unlikely articles of diet—for sweetbread!

Swiftly, ere her courage failed, she sped downstairs, and, re-entering the drawing-room, made her way to Mrs. Hill's side, where she told with bated breath her husband's most recent desire.

"Sweetbread!" Mrs. Hill was so amazed she repeated the word aloud. "There is not such a thing to be had within twenty miles—even if it could be had there. Is there no other"——

"Thank you—thank you much!—it was only the poor fellow's fancy. I am grieved to give so much trouble"; and Mrs. Urwick flitted out again, only to return in less than three minutes merely to speak another word in Mrs. Hill's ear.

"I am unfortunate," answered that lady. "but we have not had an oyster in the house this season."

"If Mr. Urwick can only tell me where the beds are, I am sure I will go and dredge for him with pleasure," remarked Mr. Monro.

"Let us go up together and see if we cannot hit on something itis possible to provide that your husband could relish," said Mrs. Hill, kindly.

"By Jove!" exclaimed Mr. Monro, after carefully closing the door—"by Jove! Mrs. Hill has let herself in for a pleasant visitor."

"No one could remain in the house with such a person," observed Mrs. Latchmere's uncle.

"He won't remain here long," said Miss Stewart, philosophically.

But then she was knitting, and people who knit, as a rule, always do take this world's rubs and crosses with a philosophy truly aggravating.

Chapter IV.

Like many another person who believes himself to be in a much worse state of health than is actually the case, Mr. Urwick had fallen into the habit of retiring to rest early and of rising late—the earlier, in fact, he sought his pillow the more loth he seemed to leave it.

In vain those doctors whose good offices he had at various times invoked warned him against this pernicious practice. The Reverend Desmond believed he knew more than the whole College of Physicians, and consequently scouted all such advice.

For this reason it came to pass that on the morning after his arrival at Bruscane he did not show in time for church. In any case, he would have shirked morning or indeed evening service, for matters had arrived at a pass when religion seemed as useless as everything else.

What comfort could religion offer to a man who had no liver—which it was possible to call a liver—left? What hope could anyone feel about the next world who had signally lost his assimilating powers in this? To reinstate a sane mind in a sound body it was necessary to capture the Vicar of

Rathdundrum's lost digestion and effect a grand reconciliation between it and its former owner, to whom it had been lawfully joined till death did them part.

This was what Mr. Urwick's clerical and carnal mind most eagerly desired, but, as has been previously stated, there was nothing the respondent in this divorce case—that portion of the reverend gentleman's anatomy not often mentioned in general conversation, but which it has been necessary to refer to so frequently in "A Vagrant Digestion"—desired less than a second servitude under an owner who had worked it like a bond-slave, beating it with scorpions of drugs if it ever under extreme pressure flagged or failed, and answering any mild remonstrances concerning unfair usage as the Egyptians did the Israelites, with the convenient phrase, "Ye are idle; ye are idle."

Mr. Urwick had not valued that good and faithful servant in the days gone by, but now, when compelled to work his domestic economy with a scratch team of useless make-believes, he felt he would have given all his worldly wealth to get his honest, contented, useful liver back again.

Ann, who understood what she styled the "fangdangs" of fanciful invalids better than most folks, sent him up a charming little breakfast, which he ate with the pleasant remark, "I hope it won't disagree with me horribly"; but this was long after all the inmates of Sea Hall, except himself and his wife, Ann, and one of the maids, had wended their way to St. Canice—Miss Gordon, attired in a dark-green velvet dress, being a prominent figure in the procession.

As usual, her brother carried her cloak, bought in Paris, which was made of fine soft cloth such as at that precise period was in vogue for gentlemen's light summer coats, and especially for those worn by the clergy.



"You have WHAT?" asked an awful voice behind him.

Miss Gordon's cloak became her admirably, and on the slightest hint of rain Mr. Gordon was wont to throw it over her shapely figure; and thus it had grown to be a sort of institution that wherever Miss Gordon went her cloak went, and wherever her cloak went Mr. Gordon had to go. This was why he carried that beautifully soft piece of cloth over his arm to church.

The verger of St. Canice was a woman, Mrs. Genty by name, the happy possessor of a rapacious disposition and a strong will, to whom the Rector submitted as though she had been his wife, and before whom staff officers had been known to tremble.

This lady approved of Mrs. Hill, who propitiated the virago at Easter, Christmas, and other feast-days, but entertaining the worst opinion of the "comers and goers" who frequented Sea Hall and failed to recognise her merits, took every opportunity of affronting and treating them scurvily.

On the Sunday, therefore, when Mr. Urwick did not go to church she shut up the Misses Wood, who loved society, in an utterly desolate seat, and insisted on Mr. Gordon, who feared his fellow-creatures, making the ninth in a square pew where there was only one gentleman beside himself, a total stranger to Mrs. Hill's boarder and Bruscane. Having thus effectually separated the obnoxious Sea Hall party, Mrs. Genty left matters to arrange themselves, which they did by so effectually stranding Mr. Gordon that had Georgie Wood, quite regardless of any remark which might be made, not waited for him at the church door, he must have returned home alone.

A very doubtful charity, the poor man considered.

As usual, Miss Georgie was more than pleasant; as usual, also, Mr. Gordon was a little shy; but the pair were getting on pretty well when Miss Wood heard something fall, and, looking down, to her inexpressible amazement saw a spoon lying on the side-path; then another dropped, then another and another; after which, before she could speak, there followed four forks—two large, two small.

"Stop! Stop! Mr. Gordon," cried the fair Georgie. "What is all this? How does it happen you have taken to raining silver? Such lovely spoons, too! Are 'findings keepings?' Do say 'yes.' Believe me, I shall value these findings more than I can express, both for your sake and their own."

"I know nothing about the things; I assure you I am utterly at sea," spluttered Mr. Gordon in an injured manner, scanning the treasure trove in his peering, short-sighted fashion. "This is a most extraordinary affair," he went on, for Georgie's airiness frightened him. "I entirely fail to conceive why my sister should have taken to carry valuables about in such a careless fashion. Let's see if there is anything else. Hullo! this is not her cloak. It is a COAT!"

"A coat!" repeated Miss Wood. "Then where is Miss Gordon's cloak?" Where, indeed?

"There was another gentleman in the pew," said poor Mr. Gordon, speaking more to himself than to his companion. "He must have taken her cloak in mistake and left his coat behind. What will Bella say?"

"Oh! this is a huge joke, and yet serious," exclaimed Georgie. "Let us run home as fast as ever we can and hold a council of war. These spoons and forks must have been stolen, you know."

Mr. Gordon did not know in the least; nevertheless, he quickened his pace till he and Miss Wood were running neck and neck to Sea Hall."

"What are you racing for, good people?" asked Mr. Monro, who was standing on the step.

"We have found a lot of stolen silver," answered Miss Georgie.

"And I have lost my sister's cloak," supplemented Mr. Gordon.

"You have WHAT?" asked an awful voice behind him, and, turning, the unhappy man beheld his sister in the flesh, and green velvet.

"I could not help it, Bella; I swear to you"——

"Don't be profane, you stupid creature; tell me how you lost it."

"I do not know; I cannot imagine. I carried your cloak to church and laid it over the back of the seat. There was only one other gentleman in the pew. When service was

over I took your cloak, as I thought, and it was only when the silver dropped out and I examined the garment I had brought away that I found it was a COAT."

"It is an ill wind blows nobody good," observed Georgie, "and this wind has blown me some beautiful silver."

"But where can my cloak be?" lamented Miss Gordon. "Who was the gentleman who sat in the pew with you?"

"I do not know."

"Did you ask the verger?"

"No."

"Then go back directly and find out."

"The verger is a woman," said Mrs. Hill, forgetting everyone was aware of that fact.

"With an awful temper," added Mr. Monro. "You will catch it, Gordon."

"No one could be rude to Mr. Gordon," remarked Miss Stewart kindly. "And I think it would be wise for him to ascertain the gentleman's name without delay."

"Be sure you say you want to know because he has stolen some plate from his landlady," supplemented Miss Bessie Wood, who thought herself witty.

"Depend upon it, the man is a common thief, and you will never see your cloak again, Miss Gordon," remarked Mr. Monro, pessimistic as usual.

"Really, it is too provoking," exclaimed the lady. "I cannot imagine how anyone with eyes could walk beside my brother and fail to see it was not my cloak he had over his arm."

"Why should I look at a cloak when I could look at your brother?" retorted Georgie audaciously. "Besides, the coat is a thin dark cloth, and——"

"Don't stand there, Charles," interrupted Miss Gordon; "go and see the woman at once."

Mr. Gordon went, but speedily returned. His face was a sight to behold.

"That is an awful woman," he said to Mr. Monro—"a perfect fiend. I did not think there could be such a woman."

"Didn't you?" returned Mr. Monro drily.

"I spoke as gently as I could"—poor soul! it would have been impossible for him to speak otherwise—"but she snapped me up in an instant, and asked me how I dared to say there were thieves in *her* church—and it can't be her church, you know."

"I know nothing about the matter. Get on with your story."

"I assured her I had not called anyone a thief. She said I made a high-born gentleman out to be a thief, which was worse; that she would not tell me any names; that she did not believe any silver had dropped, but if any had it belonged to her, for everything found in that church was hers by right. 'Where are those spoons you talk about?' she screamed. I felt very much alarmed, but told her as well as I could that the young lady who saw them fall was keeping the articles till we could find an owner. What I was most anxious about was my sister's cloak—a new and very expensive cloak. 'I am not sure that you've got a sister, or that, if you have, she's got a cloak or ever had one,' returned the dreadful creature. 'I've a notion it's a make-up between you and that spotty-faced clip I saw waiting for you in the porch.' And really, you know, Monro, that was a very nasty remark, because, though Miss Wood has a pimple, it is a very small one—so small I should not have thought any casual observer would have noticed it——"

"Never mind Miss Wood's spots. Return to your charming friend. What was her last sweet word?"

"That if I would bring her the coat and the silver, and act as a gentleman should by a lone widow woman who had only her character to get a living by, she would go to the gentleman and ask if he had the cloak; but if I tried to keep things that by my own showing were none of mine, she would make the owner take the law of me for saying he was a thief—which I never said. I am at my wits' end, Mr. Monro; do advise me."

"It is a very serious matter," answered the other, with suspicious gravity. "You see, the spoons constitute such a difficulty. If it had been Mr. Urwick's digestion, now"—— but there he stopped as if shot, for Mrs. Urwick came down the stairs smiling blandly.

"I hope you have news of your sister's cloak, Mr. Gordon,' she said.

"No, indeed," returned that gentleman; "so far I have been unable to hear tale or tiding of it."

"Meanwhile, dinner is quite ready," interrupted Mrs. Hill. "We always dine early on Sunday, Mrs. Urwick, and have cold meat."

"A very good arrangement," declared Mrs. Urwick, wondering what the Reverend Desmond would think about this departure.

She was not long left in doubt. Even while saying grace the Vicar of Rathdundrum took a comprehensive glance over the well-spread board, and formed his resolution.

Before, however, he could carry it into effect, a tremendous double knock, followed by a violent performance on the front-door bell, startled the house out of its usual calm propriety. Everyone paused expectant, waiting till the summons could be answered; then a man's voice was heard, asking for someone or something imperiously.

"If you please, ma'am," said the parlourmaid entering, "a gentleman has come about a coat, he says——"

"Yes! excuse me, I *have* come about a coat," exclaimed an individual with very fiery red hair, and apparently a temper to match, who followed close behind the servant, and was followed in turn by Mrs. Genty. "I never was so insulted in my life; I was sitting in the coffee-room waiting for a chop, when this woman comes in and tells me, before a roomful of people, someone has accused me of stealing a cloak."

"That is the one!" declared Mrs. Genty, pointing an accusing and not over-clean finger at Mr. Gordon.

"I am quite at a loss to understand the meaning of all this," stammered that unhappy individual, rising from his chair.

"Are you?" was the retort. "If you will kindly step outside for a minute, perhaps I can manage to sharpen your comprehension a little."

"Gentlemen, gentlemen!" cried Mrs. Hill, "do keep calm I assure you," she added, addressing the irate stranger, "Mr. Gordon is quite incapable of making such a statement. There is some great mistake. Mrs. Genty is labouring under a delusion."

"Then, ma'am, as you seem to know, will you kindly tell me what all the fuss is about?" said the unwelcome visitor, on whom the lady's appearance, voice, and manner evidently produced a favourable impression.

"So far as I understand matters," answered Mrs. Hill, "Mr. Gordon went this morning to church carrying his sister's cloak——"

"Bought in Paris!" interpolated Miss Gordon.

"You sat in the same pew, I conclude?"

"We did, unfortunately ——"

"More by token, it is the best seat in the church," said Mrs. Genty, as if she were repeating the responses.

"As Mr. Gordon was on his way home, the young lady who walked with him, hearing something fall, looked down and saw to her surprise ——"

"The side-path strewed with silver spoons and forks,' interpolated Miss Georgie.

"Such an extraordinary circumstance induced Mr. Gordon to examine the garment he was carrying, when he found the supposed cloak to be a gentleman's coat."

"And how does all this concern me?"

"Mr. Gordon, imagining you might have taken the cloak in mistake, just as he had taken the coat, asked Mrs. Genty for your name and address."

"And told her I had stolen a cloak and a lot of silver."

"I declare most solemnly I never did," said Mr. Gordon.

"And I declare you as good as told me there were thieves in my church."

"I did no such thing."

"You may rest assured Mrs. Genty is the victim of a delusion," said Mrs. Hill gently. "Mr. Gordon is quite incapable of making such a charge. You will take my word for that, won't you?"

"Well, certainly he does not much look like a person who would go blustering about the world," said the stranger, relaxing into a smile.

"Those were his very words; if I was on my death-bed I'd stick to that," persisted Mrs. Genty.

"You have taken a good deal of trouble over this matter, Mrs. Genty," interposed Mr. Monro, "and I feel certain Mr. Gordon would wish to recognise your services, so perhaps you will come into the hall for a moment."

"You see how the misconception has occurred," said Mrs. Hill, when by this masterly move Mrs. Genty stood on the other side of a closed door.

"I believe there has been a misconception," returned the stranger frankly, "but how it occurred is still a mystery to me. I took no overcoat with me to church, and I carried no cloak away from church."

"Most curious!" exclaimed Miss Stewart. "To whom, then, can that coat belong?"

"Not to me, certainly;" and then people looked at each other in a puzzled silence which was broken most unexpectedly by the Vicar of Rathdundrum.

"Where is the silver you spoke of?" he asked.

"Where it is going to remain—in my dressing-box," said Miss Georgie, pertly.

"Show me the coat, then."

Mr. Gordon, not without some natural trepidation, went out into the hall and returned with what had proved such a bone of contention.

"Here it is," he said.

"That is my coat," declared Mr. Urwick.

"Yours!" exclaimed everyone in a breath.

"Mine," asserted the Reverend Desmond.

"Then where is my cloak?" asked Miss Gordon.

"I should imagine among that heap of things in the hall. As I told Mrs. Hill last evening, she ought to provide a proper place for coats and wraps."

"And, when all that is settled, may I ask from whom you stole the silver?" inquired Mr. Monro, with insinuating gentleness.

"From no one. The silver is my property. I brought it from Rathdundrum."

"Loose in your pocket?"

"Precisely."

"But what on earth made you drag four spoons, four forks—and anything more, Miss Georgie?—all the way to Bruscane?"

"My husband has such a horror of plated articles," said Mrs. Urwick.

"As well I may," added the Vicar. "I was once nearly poisoned by some German silver—in fact, I have never wholly recovered from the effect to the present hour."

"My husband is so very delicate and sensitive both as regards taste and smell."

"Why four of each, though?" persisted Mr. Monro, too much engrossed by his own devouring curiosity to heed or indeed hear the wife's well-meant explanation. "Would not one, or, at most, two, have sufficed? Really, Urwick——"

"I do not think this is a day, neither is the state of my health such"—— began the Vicar solemnly; but he was not allowed to finish his sentence; what he added was drowned in such a peal of laughter that it was some time before anyone could utter two consecutive words.

When decorum resumed its sway Mrs. Hill asked the stranger if he would not take his deferred dinner at Sea Hall, instead of returning to the hotel. Nothing loth, he very readily assented, introduced himself as Mr. Edward Cammett, and forthwith devoted a good part of his time to watching Mr. Urwick, who refused each dish as it was handed round, and sought consolation in a piece of dry bread, which he ate as if it were something exceedingly nasty, which could only be got down with difficulty by swallowing cold water in gulps.

Mrs. Hill seemed intensely mortified. In vain she pressed several dainties on the invalid's notice, in vain she asked if there were nothing he thought he could fancy. He negatived every suggestion with, "I am doing very well, thank you," which formula he uttered as though lying under sentence of death.

Then Miss Stewart said how terrible it must be to suffer so much, and asked him whether he had tried this, that, and the other.

Mr. Urwick replied in the affirmative, and Mrs. Urwick confirmed his statements.

Most sympathetically Mr. Monro followed suit, and Mrs. Latchmere, and even Miss Gordon. Baths, spas, places, doctors, were all mentioned, with a like result.

"I have tried everything that has been recommended," said the invalid solemnly—"hot water and cold, bracing air and relaxing, mountain and valley, sea and inland. I have given every new remedy a trial, with the result that I am now in a much worse state than when I consulted a doctor for the first time about my malady."

Mr. Cammett seemed deeply interested. Hitherto he had refrained from naming any specific, but at length, when there ensued quite a lull in the conversation, he asked:

"Have you ever tried breaking stones?"

Mr. Urwick looked at him sternly for a second ere he answered, "No, I have not."

"It might be worth your while, then," said the other, totally unabashed. "If you gave that remedy a fair chance, I am confident at the end of a month you would be able to eat anything which was set before you."

"I apprehend, sir, you do not know what you are talking about," said Mr. Urwick.

"I think I do," answered Mr. Cammett with much significance.

* * * * *

The Vicar of Rathdundrum thoroughly enjoyed that Sunday afternoon. He spent it in packing, or rather in watching his wife pack.

Though, as Mrs. Urwick urged, they had come to Sea Hall for a month certain, Mr. Urwick was determined to leave next day. He said he considered the whole establishment a shameful take-in, and should let Lady Mary know his opinion.

If Mrs. Hill did not like their going, she had her remedy. For his part, he wished she would go to law, in order that he might expose her pretences.

Mrs. Hill raised no objection, however. She never mentioned that a set time had been specified; most thankfully she speeded the parting guests, and did not rebuke Mr. Monro when he said he thought they ought to present Mr. Cammett with a testimonial.

Mr. Monro accompanied the Reverend Desmond, his wife, and their luggage to the mail-car, and bade them good-bye with many expressions of regret. He watched the vehicle which bore them away till it was out of sight; but he missed one

thing—viz., a view of Mr. Urwick's vagrant digestion as it flew along the road in front of the horses, turning somersaults, playing at leap-frog with its own shadow, acting like a thing mad with delight at having escaped from the custody of such a taskmaster, who was now tormented with seven demoniacs, instead of the easily-satisfied, well-conducted digestion he had never valued till he lost it for ever.

Photographic Notes

Toning Gelatino-chloride Prints.

There is no question of the fact that the gelatino-chloride paper is making headway very fast, and the sensitised albumen paper may yet take a place similar to what collodium plates have done in comparison with gelatine plates. The toning of the new paper is, of course, one of the chief elements in the new departure, and in this connection the *Amateur Photographer* mentions a process by Emil Bühler for giving good black tones. After printing, the paper should be placed in water acidulated with 2 drops of glacial acetic acid to the pint, and allowed to remain for two minutes, then washed once or twice and toned.

To prepare the new concentrated toning-bath, heat in a beaker in a water-bath to 100° F., distilled water 4 oz., chloride of gold 36 grains; when completely dissolved, add strontium chloride 360 grains, and heat to 212° F.; now dissolve ammonium sulphocyanide 88° to 400 grains, in distilled water 4 oz., and heat the solution to 212° F.; to this add the solution of gold in four or five portions, shaking between each addition; allow the whole to cool, and filter; Wash the filter with distilled water 1½ oz., and add to the mixed solutions; shake the solution well, and fill with it small clean bottles and cork well.

The toning-bath is made as follows:—

	Parts
Stock solution	5 to 7
Distilled water..	100

For weak prints the smaller proportion is sufficient, but for vigorous prints the gold must be stronger.

The prints should be toned until, on looking through them, the half-tones appear almost grey, whilst the deep shadows should still be reddish. They should then be washed once, and fixed in a 10-per-cent. solution of hyposulphite of soda, being allowed to remain for ten minutes, face upwards. They should then be washed for one hour, and placed in the following filtered alum-bath:—

Ammonia alum	25 grs.
Water	1 oz.
Solution of ammonia ·880 ..	.. 2 to 3 drops

The prints should remain face downwards in this for from five to fifteen minutes, and then be well washed.

For mounting prints which are squeegeed to glass, Bühler recommends preparing a mucilage by dissolving gum arabic 1 part in hot water 2 parts, straining, and allowing to cool. Whilst the prints are damp and squeegeed to glass, give them a coating of the mucilage, allow to dry, strip, and mount by damping the cards and squeegeeing into contact.

"Blue-book of Amateur Photographers."

This book, which is edited by Mr. Walter Sprange, fills a useful purpose, and will be of much use to chemists and photographic dealers. It purports to be, and is to a considerable extent, a directory of amateur photographers. The names and addresses of members of photographic societies, their officers, rules, &c., are given, and many hundreds of names of workers in photography will be found in its pages. It is a pity that, in order to bulk the book, Mr. Sprange has included a list of the members of the British Association for the Advancement of Science, occupying some 100 pages out of 450.

"Climax" Dry Plates.

Messrs. John J. Griffin & Sons, Garrick Street, Covent Garden, have recently brought out a dry plate, under the title of the "Climax," which has a great similiarity to the wet collodion plate, combined with extreme sensitiveness. These plates can be worked with any developer, but it is recommended to use pyro and soda. The following formula is one of the simplest and at the same time most effective:—

Stock Soda-solution.

Ordinary washing-soda	½ lb.
Bromide of potassium	½ dr.
Water	½ gallon

In the developer measure place an eggspoonful of dry pyrogallic acid, pour on it ¼ oz. of the stock solution, and make up to 2 oz. with water. To clear any yellowness from the negative after washing use the following:—

Clearing-bath.

Saturated solution of alum	1 pint
Citric acid	1 oz.

Clearing should always be done in the dark-room: if the plate is submitted to the daylight the yellow stain will be fixed. The "Climax" gives negatives of great brilliancy, and admits of almost any latitude in exposure.

The Crystal Palace Lantern.

Messrs. W. Watson & Sons, 313 High Holborn, W.C., have recently built a biunial lantern to the specification of Mr. Wollaston, an expert lanternist, and it was used in the recent demonstrations at the Crystal Palace. The body of the lantern was made somewhat larger than is usual, in order to permit of the use of the 4½-inch condensers. The lens-tubes were solid from the front with only the ordinary rack and pinion for focussing, it being held that draw-tubes cut off and block the beam of light. The lenses were 3½ inches in diameter, and capable of illuminating out to the edges a screen which filled the whole of the prosceuium of the Opera-Theatre, some 30 feet square. The actual pictures shown were about 27 feet across the centre, and of course varied in accordance with the mask used. The jets gave a light of immense power and brilliancy, the oxygen and hydrogen being supplied from gasholders, not cylinders, at low pressure—viz., 1½ to 1¾ inch. This system of working is much to be commended whenever possible. The lantern was also fitted with a new arrangement for regulating the height and position of the jet in the lantern, all movements being operated from the back. The entertainments were a great success: on no evening were there few than 1,500 people in the theatre, and on Thursdays and Saturdays at least 2,000. No fewer than 30,000 people must have witnessed these lantern-shows, proving most conclusively how popular is the optical lantern

Printing-out Opals.

A novelty this season is to be found in the printing-out opals turned out by the Paget Prize Plate Company, of Watford. Opals have long been on the market, but they have been gelatino-bromide, requiring exposure and development almost identically the same as bromide-paper. The printing-out opals open up quite a new and delightful branch of photography. They are placed under a negative in a printing-frame, and are printed out in the same manner and in sunlight, as quickly as silver print; in fact, the opal when printed out has the same appearance as an untoned print. After it has been taken out of the printing-frame it is toned in one of the well-known sulphocyanide-of-ammonium baths, and fixed in an ordinary fixing bath, or good results may be obtained by using one of the combined fixing and toning baths now in such very general use for gelatino-chloride papers. These opals make most effective pictures, and are in high request by ladies for ornamenting drawing-rooms, boudoirs, &c. Given a good negative, a good opal is now a certainty.

He Died by Degrees.—Mrs. Mulcahey: "Shure, docther, and is it thrue that little Jimmy O'Toole bit yoore termomty in two and swallowed the mercury?" Doctor: "Yes, my dear madam, it is; and the boy is dead." Mrs. M.: "Shure, docther, an' it were a cold day for Jimmy, poor bye, whin the mercury went down." Doctor: "Yes, madam, he died by degrees."

GOA POWDER AND CHRYSAROBIN.

By E. J. Millard, F.C.S.

SOME few months ago I pointed out in this journal that most of the Goa powder at present obtainable in commerce is considerably adulterated with inorganic material.

This result was directly opposed to the opinion expressed by Messrs. Duncan and Tweedie at an evening meeting of the Pharmaceutical Society in Edinburgh, on December 23, 1891. An examination of the figures upon which their opinion was based shows, however, that although the percentages of chrysarobin and moisture were estimated, no determinations of ash were made, but the insoluble matter obtained by difference was regarded apparently as entirely woody fibre. Mr. J. Rutherford Hill, F.B.S., Assistant Secretary of the Pharmaceutical Society, in whose possession Messrs. Duncan and Tweedie's specimens remained, thought it would be of interest to estimate the ash, and kindly communicated the results to me. Messrs. Duncan and Tweedie's table, as amended by Mr. Hill, is as follows :—

—	Chrysarobin	Moisture	Insoluble	Yielding Ash
1	76·90	2·1	21·0	2·34
2	55·5	3·0	41·5	20·06
3	80·3	2·6	16·6	8·49
4	66·6	2·4	31·0	0·78
5	81·3	2·2	16·0	6·13
6	82·3	2·2	15·5	6·96
7	57·2	3·3	39·5	(lost)
8	70·3	1·2	28·0	15·0
9	68·85	2·9	28·25	1·08
10	69·1	2·9	28·0	21·60
Average ..	71·00	2·5	26·5	9·16

Unfortunately, Mr. Duncan has mislaid the history of these specimens, but it will be seen that with the exception of three they cannot be regarded as satisfactory. The recent increase in the price of chrysarobin is stated on the market to be due to the scarcity of good Goa powder, whilst a sample offered lately was admitted to contain over 30 per cent. of inorganic matter. In fact, further examination has completely confirmed the opinion I expressed as to the difficulty of obtaining unadulterated Goa powder.

As the samples upon which my report was given were all in fine powder, it appeared advisable to obtain authenticated specimens of the crude drug, as imported, to determine the origin of the impurity.

Through the kindness of Dr. Charles Symes, of Liverpool, several samples taken directly from parcels imported recently by his firm were placed at my disposal. The only change that had taken place since they left Bahia was the loss of about 20 per cent. of moisture. The percentages of ash in these were approximately the same, about 7 per cent., and the moisture about 4 per cent.

Crude araroba is roughly divisible into three portions. There is a woody part, consisting of small pieces of wood with much of the powder adhering and filling the interstices. Then there are small flat irregular pieces or concretions which break with a clean fracture and exhibit a pale-brown interior darkening to umber-brown or even purple towards the exterior. The remainder consists of coarse powder. The relative proportions of these to each other vary considerably, but the powder is always largely in excess.

When separated into the three parts described above, and ignited, the following results were obtained :—

Wood, percentage of ash	1·02
Concretions, „	0·75
Powder, „	8·64

No trace of iron was found in the ash obtained from either wood or concretions.

A considerable quantity of the inorganic material from these samples of crude Goa powder was analysed. The composition was as follows :—

SiO_2	Fe_2O_3	Al_2O_3	K_2SO_4	Na_2SO_4	Total
83·30	7·47	2·90	3·54	2·63	99·84

The above results indicate clearly that the adulteration was not in any way due to excess of woody matter, as had been suggested to me, but to sand and oxide of iron mixed with the powder.

So far as I am aware no data have been published as to the percentage of ash in genuine Goa powder, and the only recorded figure is the extraordinarily low amount obtained by Professor Attfield, F.R.S., from the sample sent by Mr. Kemp, of Bombay, in 1875. With the view of suggesting a limit to the quantity of ash yielded by Goa powder which should be regarded as unadulterated, I communicated with Professor Attfield, who sent the following reply :—

"My sample of crude Goa powder of 1875 yielded, as you correctly quote, 0·43 per cent. of ash. Another sample later in the same year afforded me 0·5 per cent. In 1877 I had one giving a little over 2·5 per cent., and later in that year one from which less than 2 per cent. was obtained. What the conditions of collection of the crude article now are, under the circumstances of increased demand, I do not know ; hence I am unable to suggest a limit for ash. Any proposal should be, I think, tentative and not below 2·5 per cent. The samples which yielded you 20 to 30 per cent. of ash must surely have been made impure intentionally. My first sample was in powder containing very few lumps and only a little fibre."

Dr. Symes says :—"I have had my suspicions that the natives damp it, but not that they add sand. We used to send a very fine dry picked sample, and say the bulk must come up to this standard. It never did, but we got a better article in consequence ; and I am under the impression that we used to get 70 to 75 per cent. of chrysarobin from Goa powder, and that the ash was not more than 5 to 6 per cent."

The small amount of ash yielded by the lumps or concretions present in crude Goa powder suggested their further examination. After reducing to fine powder, it was extracted with different solvents, and with the following results :—

	Per cent.
Soluble in benzol	86·5
„ alcohol	2·5
„ water	·5
„ NaOH solution	4·2
Insoluble	6·3
	100·0

The portion soluble in dilute caustic-soda solution gave a deep purple colour to the liquid ; the addition of an excess of acid yielded a red precipitate. The amount of chrysarobin yielded by these concretions—86·5 per cent.—is larger than any recorded yield from Goa powder.

As a considerable quantity of chrysarobin extracted during these experiments had accumulated, it was examined by the pharmacopœial and other tests. It was light yellow, minutely crystalline, odourless and tasteless. It melted at about 154° C., with some decomposition. Although completely soluble in benzol and chloroform, it was not completely soluble in ether.

According to the British Pharmacopœia chrysarobin should be almost entirely soluble in 150 parts of hot rectified spirit. I have examined a number of commercial samples, and not one was soluble to a larger extent than about 60 per cent. in hot rectified spirit. Chrysarobin is more soluble in hot absolute alcohol, but even in the proportion given in the American

Homœopathic Pharmacopœia of 1 in 224, some 16 per cent. remains undissolved. The experiment was then made of taking the filtered alcoholic solution and evaporating on a water-bath. The product was found to be considerably less soluble in alcohol than before, so evidently the action of heat is prejudicial from the point of view of the solubility in alcohol as a test.

The colour-reaction with sulphuric acid is also never yellow unless the purified chrysarobin of Liebermann and Seidler, obtained by repeated crystallisation from glacial acetic acid, is intended by the B.P. Chrysarobin obtained from Goa powder by means of a suitable solvent, such as benzol or chloroform, invariably gives a deep orange to brown-red colour; the U.S.P. describes it as blood-red. This colour is due to the admixture of purified chrysarobin with chrysophanic acid, the latter giving a red colour with sulphuric acid. When the concentrated acid, thus coloured, is diluted with water the orange colour is destroyed, and only a yellow coloration and precipitate remain.

In the German Pharmacopœia, second edition, 1884, a test is given, depending upon a violet colour-reaction with nitric acid and solution of ammonia. I have never succeeded in obtaining this reaction, and in the latest edition (Ph.G., 1890) the test is omitted, although perpetuated in Thorpe's recently-published "Dictionary of Applied Chemistry."

In conclusion, I desire to express my indebtedness to Dr. Symes, Professor Attfield, and Mr. Hill, for samples and information kindly given in the course of this investigation.

THE ASSISTANT'S CERTIFICATE OF THE APOTHECARIES' HALL OF IRELAND.

WE recently published details of the examination for the assistant's certificate of the Apothecaries' Society in London, and it may be interesting to supplement that report by a short account of a candidate's experience at the corresponding examination in Ireland. Our correspondent says:—

The examiners sat surrounding a long table, at which I was given a seat beside Mr. John Evans. He immediately commenced work by giving me a sample of rad. scillæ to recognise. What was it? Name all its B.P. preparations. How would I make the oxymel? What was the strength of pil. ipecac. c. scillâ as regards opium? &c.

This was followed by cort. cinchonæ, fol. uvæ ursi and fol. buchu, cort. canellæ, gum. galban., gum. elemi, rad. sarsæ, rad. gentian., lig. quassiæ, rad. jalapæ, &c., with a similar string of questions after each. I was not asked the botanical name or natural order of any of the vegetables.

I was then shown a bundle of old prescriptions, several of which I had to read in full Latin, being asked, as we went along, how I would proceed to compound them. Mr. Evans conducted the greater part of the *viva voce*, the other examiners occasionally putting in a question.

I was next taken upstairs, and had to make up a mixture with creta præp. and pulv. rhei, which Dr. Montgomery told me I turned out very well.

After making me describe the processes of percolation, distillation, filtration, &c., he kept me about fifteen minutes on doses and general questions such as—The percentage of hydrocyanic acid in aqua laurocerasi? Dose of hydrarg. perchlor. and strength of liquor? Dose of ext. cannab. ind.? of arsenious acid? of eserine? of liquor trinitrini? Strength of pulv. elaterin. co.? of pulv. ipecac. co.? of pulv. cretæ arom. c. opio? and of confect. opii? and so on, winding up with some questions on pill-excipients and emulsions.

This finished the examination. After waiting about ten minutes I was called in, told I had passed, and was handed my certificate by the Governor, "with their best wishes for my success."

ERRAND BOYS.

UNTIL electric telpherage or pneumatic-tube communication becomes universal the errand-boy must constitute an important link between pharmacist and public, although his claims to such consideration seem to have been somewhat neglected.

Without entering upon a tedious inquiry as to his biogenesis and evolution, we do not regard the average errand-lad as a success—although there are honourable exceptions. This messenger of Æsculapius is anything but mercurial in his movements; his feet seem shod with lead, and his cap is usually adorned with a flower (or at Christmas with a sprig of mistletoe) in lieu of the hermetic wings. Yet, like earthquakes, blue-bottle flies, tax-collectors, spooks, &c., he is a natural phenomenon, and as such is to be observed and investigated.

His activities would seem to arrange themselves into two classes—viz., accidents and offences—but these are so artistically blended in his career as to appear but one.

We are all familiar with the lad who smashes the Winchester of ol. jecoris, and appears directly afterwards covered with tears and oil and sawdust, leaving oleographic impressions of his hob-nailed boots on the kamptulicon. One lad I knew had an Oriental propensity for carrying everything on his head; one day it was a drawer of Chinese red, which, being overset by an unlucky doorpost, converted the youth into the very reddest of pantomime bogeys.



Some of these Flibbertigibbets expend much ingenuity in practical joking, but we fear the "active and industrious apprentice" of the establishment sometimes has a hand in these diversions. It was in a quiet West-country town, where science schools were unknown, that a small parcel of litharge was carefully wrapped in several papers, labelled "Oxide of Gold," and then deposited in the market-place. It was found and taken to the police-station by an honest rustic, and afterwards actually "cried" through the streets by that august functionary the Town Crier! Of less scientific interest are some other examples of misplaced ingenuity, such as the ghostly summons when a black thread is attached (at the twilight hour) to a knocker on the other side of the street, or a bright penny on the pavement is drawn away from an extended hand by the same simple mechanism.

In the primitive old town above mentioned there was a row of small almshouses, all precisely alike. The street-doors were furnished with old-fashioned "bow-handle latches." Our practical humorists of gold-packet notoriety threaded a clothes-line through those handles, made the ends secure, knocked and ran away. As these small tenements did not possess back-doors, the ancient inmates were much embarrassed until an agile youth of 70 or so climbed through a window and released his fellow-bedesmen.

Where there are two or more errand boys on an establishment the tension and "mischief-voltage" are increased in proportion. An example of this occurred only a few weeks ago. It was late on Saturday night, and the boys were waiting the welcome summons to close. One of them fell asleep; the other adorned his sleeping comrade's face with streaks of vermilion and lampblack, and cautiously placed a battered white hat on his head. At that moment the electric bell vibrated, the "Sleeping Beauty" started, and ran into the shop with his basket, to the delight of a shopful of late customers.

The principal's appreciation of the joke took a different form.

C. & D. Recipes.

Contributed by Subscribers of The Chemist and Druggist. *Further contributions of tried recipes will always be welcomed by the Editor.*

Ferguson's Glycerine Balm.

Zinci oxidi (Hubbuck's)	ʒiiss.
Glycerini	ʒiv.

Rub thoroughly until the mixture is perfectly smooth, then add the following solution :—

Otto rosæ	ɱxx.
Ol. neroli	ɱxv.
„ amygdal. essent.	ɱv.
„ bergamot.	ɱx.
Spt. rectificat.	ʒss.

Finally add—

Aq. rosæ tripl.	ʒij.
Aq. ad	ʒxxx

M.

Label appropriately, and with a small "Shake the bottle.' When this lotion is applied to the face and hands occasionally—*i.e.*, always after washing or after exposure—it keeps the skin smooth and soft.

Emollient Summer Lotion.

Glycerini	ʒj.
Aquæ mellis	ʒj.
„ lavand.	ʒiij.
„ flor. aurant.	ʒj.
„ flor. sambuci	ʒiv.
Otto rosæ	gtt. ij.
Spt. rectificat.	ʒss.

Dissolve the otto in the spirit, and mix with the rest of the ingredients in the order given.

EMOLLIENT SUMMER LOTION
SOFTENS THE SKIN,
IMPROVES AND PRESERVES
THE COMPLEXION,
Rendering it clear and beautiful.
Removes Tan, Sunburn, Freckles, and any Roughness, Irritation, or Redness caused by Exposure.
Apply to the Skin by means of a Soft Linen Cloth, especially after Washing.

This lotion is a very superior article and retails at 6*d.* per oz. Put it up in nice bottles, preferably of amber glass.

Emollient Ointment.

Vaselini	ʒviij.
Ceræ flavæ	ʒij.
Benzoini	ʒj.
Gum Thus	ʒij.
Tereb. venet.	ʒij.

Melt together over a water-bath, and strain through lint. Then add when sufficiently cool—

Camphor. pulv.	ʒj.
Ol. eucalypti glob.	ʒss.

This preparation is a valuable one for those chaps and cracks of the skin which so persistently resist the healing influence of glycerine and similar emollients. It is also very good for chilblains. Sold in 1-oz. boxes at 6*d.* Should be warmed at the fire before use.

Cold Cream.

Petrosin. alb.	72 oz.
Ceræ alb.	6½ „
Cetacei	4½ „
Aq. rosæ tripl.	18 „
Otto rosæ	3iss.

Melt all together by the heat of a water-bath, and while cooling add the otto of rose. Beat thoroughly, for the better this is done the better will the cream be.

White Oils.

Olive oil	ʒxviij.
Yolks of three eggs	
Oil of turpentine	ʒxij.
Spirit of camphor	ʒij.
Strong solution of ammonia	ʒiij.
Vinegar (white distilled)	ʒx.

Mix in the above order, shaking well all the time.

Dental Tincture.

Tannin	ʒij.
Extrait of rose	ʒss.
Tincture of orange-peel	ʒss.
Cochineal colouring	ʒij.
Camphor-water to	ʒxx.

Mix and filter after an hour.

This is a simple and effective preparation for spongy gums, &c. It is to be used frequently when the mouth is very sore, or morning and evening as a preventive. A dessert-spoonful in a wineglassful of warm water is the quantity to use.

Alkaline Mouth-wash.

Sodii bicarbonatis	ʒiss.
Ammonii carbonatis	gr. vj.
Tinct. myrrhæ	ɱxv.
Aq. coloniensis	ʒiij.
„ lavandulæ	ʒj.
„ destillat. ad	ʒvj.

Mix and filter.

To be used with an equal bulk of warm water.

Tooth and Gum Tincture.

Acid. boric.	ʒss.
Tr. krameriæ	ʒj.
Aq. coloniensis	ʒxx.
Tr. myrrhæ	ʒxx.

Mix.

A very elegant preparation, and may be put up under any name that the fancy of the retailer suggests. The following recipe for

Eau de Cologne

is the one that has been used in making the tincture :—

Ol. bergamoti	ʒij.
„ neroli	ɱxvj.
„ aurantii	ʒj.
„ rosmarinæ	ʒj.
„ limonis	ɱxl.
Ess. ambergris	ɱxl.
Extrait jasmin.	ɱxl.
Spt. rectificat.	ʒxxxij.

Mix.

Court Dentifrice.

Precipitated chalk	60 oz.
Carmine	ʒij.
Otto of rose	ɱl.
Oil of pimento	ɱl.
„ cloves	ɱl.
„ cinnamon	ɱxx.
„ lemon	ɱxx.
Grain musk	gr. x.

Triturate the musk with the carmine and ½ oz. of chalk for five minutes; then add the oils one by one with about 2 drachms of chalk along with each oil. Continue trituration for at least ten minutes with half the chalk; add the rest, and sift three times.

An exceedingly nice tooth-powder, elegant in appearance, and of rich yet delicate odour. Retails at not less than 6*d.* per oz.

White-rose Saponaceous Dentifrice.

Powdered white Castile soap	ʒiv.
„ orris-root	ʒiv.
Heavy carbonate of magnesia	ʒviij.
Precipitated chalk	ʒxvj.
Otto of rose	ʒss.

Triturate the otto with 1 oz. of the chalk before adding the rest of the powders; then sift three times.

Foaming Carbolic Dentifrice.

Quillaia, in coarse powder	℥iv.
Glycerine	℥iij.
Rectified spirit	℥v.

Macerate for four days and add—

Carbolic acid, in crystals	ʒj
Oil of rose-geranium	♏x.
„ cloves	♏x.
Otto of rose	♏x.
Oil of cinnamon	♏x.
Tincture of rhatany	ʒiss.
Rose-water	℥xxx.

Macerate for another four days, and filter.

The following is a label which has been used for the 4-oz. bottles (1*s.* 6*d.*) of this dentifrice :—

LIQUID CARBOLIC DENTIFRICE.

FOR PRESERVING THE TEETH AND GUMS.

The antiseptic and preservative properties of carbolic acid are so well known that to comment upon its virtues as a dentifrice would be superfluous. It is sufficient to say that this is an agreeable and perfectly safe preparation, possessing powerful antiseptic properties, and it is strongly recommended for cleansing and preserving the teeth, arresting decay, and restoring the gums to a healthy condition.

Directions for Use.

Sprinkle a few drops upon a wet tooth-brush and well brush the teeth in the usual manner.

Compound Charcoal Dentifrice.

Cretæ precip.	℥viij.
Pulv. sapo hispan. alb.	ʒij.
„ oss. sepiæ	ʒiij.
„ magnes. carb. pond.	ʒiij.
„ ligni carbon.	℥xij.
Acid. benzoic.	ʒij.
„ boric.	ʒx.
Ol. neroli	gtt. xij.
„ caryoph.	gtt. xx.
„ amygd. amar.	gtt. vj.
„ bergamot.	ʒj.
Otto rosæ	gtt. vij.

Highly recommended by the most eminent dentists as a valuable antiseptic tooth-powder for the teeth and gums.

Balsamic Hair-wash.

Rosemary-leaves (stripped from the stalks)	℥xij.
Castile soap	ʒiij.
Chloride of ammonium	ʒss.
Carbonate of potash	ʒiv.
Red sanders wood	ʒss.
Water	14 pints

Boil the rosemary, soap, and sanders wood in the water for twenty minutes. Then remove from the fire, and add the chloride of ammonium and carbonate of potash. Stir well and, when cold, strain.

Put this up in ½-pint bottles, and label to the following effect :—"This hair-wash thoroughly eradicates scurf, and promotes a fine growth of hair. To use it, put a tablespoonful in a pint of warm water, and wash the hair with this mixture, shampooing well."

Indian Cerate.

The following is claimed to be the original recipe :—

First Stage.—Rub up in a warmed large mortar ʒij. of Peruvian balsam with ʒij. of olive oil.

Second Stage.—Melt 1 lb. of white wax in 73 oz. of olive oil by the aid of heat, and mix with the Peruvian balsam and oil.

Third Stage.—Make 15 oz. of levigated carbonate of lead in a thin paste with distilled water, and mix well with the above ointment while hot, stirring constantly till nearly cold.

Retails ʒj. for 1*d.*, or 4*d.* per oz., without recommendation. With label to the effect that this is the celebrated Indian cerate, for healing burns, wounds, cuts, slight skin affections, &c., it is put up in 3-oz. pots, stamped, to retail at 1*s.* 1½*d.*

Citron Cream for the Hair.

(1)

Ceræ albæ	ʒx.
Ol. amygdalæ	ʒivss.
„ ricini	℥v.
„ olivæ	℥xiiss.

Melt by the heat of a water-bath.

(2)

Ol. limonis	ʒv.
„ amygdal. essent.	♏xij.
Ac. benzoic.	ʒj.
Cambogæ	ʒi.
Spt. rectificat.	℥j.

Dissolve the gamboge in the spirit, filter, and mix the oils and acid with the filtrate.

Add No. 2 to No. 1 in small quantities at a time, shaking well. Next add the following, assiduously shaking :—

Acid. citric.	ʒiss.
Aquæ destillat.	℥v.
Glycerini	℥v.

If carefully made, this turns out a golden-coloured semi-fluid preparation, and is retailed in 3-oz. round-shouldered bottles at 1*s.*

Cantharidin Hair-stimulant.

Cantharidin	gr. v.
Acetic ether	ʒiii.
Glycerine to	℥j.

Reduce the cantharidin to powder, and shake with the ether ; then add the glycerine. Separately prepare the following mixture :—

Oil of rose-geranium	♏ss.
„ eucalyptus	♏ss.
„ rosemary	♏ss.
„ bergamot	♏xx.
Powdered borax	℥vj.
Camphor-water	Oij.
Distilled water	Oij.

Triturate the oils with the borax ; add the waters, and allow to stand for a fortnight, shaking daily. Then add the cantharidin solution, and filter through powdered pumice (about 1 oz.), which should be shaken with the mixture before filtration.

This has been put up in bottles like Cleaver's cantharidin and terebene wash. It is to be used every morning and evening, well brushing after. The hair should be washed with soap and warm water, to which has been added a little of the following :—

Rosemary Hair-wash Powder.

Pulv. quillaiæ	℈j.
„ boracis	ʒij.
„ camphoræ	gr. x.
Ol. rosmarinæ	♏iij.

M.

A nice powder for retailing in packets. The above is sufficient for a wine-bottle of water.

Superior Hair-pomade.

Italian castor oil	℥xvj.
Olive oil	℥xij.
Jasmine pomade	℥xx.
Violet pomade	℥xx.

Melt the pomades with a gentle heat, and stir in the oils.

The floral pomades are to be used. The product is exceptionally fine ; but if considered too thin, add to it 2 oz. of picked yellow wax.

Baking-powders.

(No. 1.)

Tartaric acid, powdered and dried ..	1 lb.
Bicarbonate of soda, dried	21 oz.
Rice flour	3 lbs. 2 oz.

Mix.

(No. 2.)

	Lbs.
Cream of tartar	2
Bicarbonate of soda	1
Wheaten starch	1

Mix.

One teaspoonful of either to 1 lb. of flour.

WILLS OF DECEASED CHEMISTS.

Probate has been granted at the Manchester District Registry of the will, dated December 22, 1871, of the late Mr. Charles Wrigley, chemist and druggist, formerly of Hamer Place, Hamer, but latterly of 139 Halifax Road, Rochdale, where he died on February 20 last. The testator appointed his wife, Harriet, his sole executrix and universal legatee. The gross value of the personalty was sworn at 605*l.* 15*s.* 9*d.*, and the net value at 580*l.* 15*s.* 9*d.*

The will, dated November 26, 1891, with a codicil, dated October 12, 1892, of Mr. W. T. Cole, gentleman, of 7 York Buildings, Melcombe Regis, formerly a pharmaceutical chemist at Weymouth, who died on March 17, has been proved by Mrs. Martha Cole, the widow, and Mr. W. B. Cole, son of the deceased, two of the executors, power being reserved to prove hereafter to Mr. W. H. Cole, another son and executor. The testator bequeathed to his widow his household furniture and effects and his personal paraphernalia. The residue of his estate, real and personal, the testator leaves in trust for the benefit of his widow for life. Upon her death each grandchild is to receive 100*l.*; certain freeholds are to go to testator's widowed daughter, Mrs. Ford; and, after making provision for the maintenance of an afflicted member of the family, the testator wills the residue of his estate to his sons equally. The value of the personalty was sworn under 8,000*l.*

The will of Mr. Johann Christian Reinhardt, formerly a chemist and druggist at Leeds, who died at Grafton House, Scarborough, on April 27, 1892, was proved at York on May 1 by Mrs. Rachel Reinhardt, the widow, and Mr. Walter Hope Reinhardt, the son of the deceased, two of the executors, to whom administration was granted, power being reserved to Mr. Charles Reinhardt, deceased's brother, and to Mr. J. M. Bell, the other executors of the will, which is dated January 27, 1892. The gross value of the personality amounted to 34,339*l.* 13*s.* 9*d.* Sir F. H. Jeune, in a suit Reinhardt and others *v.* Reinhardt, pronounced on March 28 a final decree in favour of this will. The testator having given his son Albert Ernest 3,500*l.* upon his marriage, and recently conveyed to his sons, Johann Christian and William Tynedale, his house and premises at Briggate, Leeds, which, with the stock, fixtures, and goodwill, he values at 7,000*l.*, charges his estate with an annuity of 600*l.* for his widow, and annuities of 120*l.* during his wife's life for each of his other children—namely, Emily Florence, Walter Hope, Alexander Stanhope, and Arthur Hope. To his widow he also leaves a legacy of 200*l.*, and the use of Grafton House for life, with the plate, linen, furniture, and household effects. To Mr. J. M. Bell he leaves 50*l.* Upon his widow's death each of the four last-mentioned children become entitled to 3,500*l.*; the balance of the estate the testator bequeaths equally between his seven children.

CAMPHOR-REFINING IN JAPAN.

THROUGH the courtesy of Messrs. Gribble & Nash, of New York City, we are able to present views of two of the most important processes in the distillation and refining of



Natives Distilling Camphor-wood.

camphor as carried out in Japan. A special interest attaches to the above picture, as being the first reproduction from a photograph of the native process of distillation from the wood which has ever been published. We have previously printed sketches of the camphor-distilling apparatus used in China and Japan, and it will be seen on comparison with the annexed engraving that these have been truthful representations, but the touch of life which the presence of the workers now adds brings us closer to the reality of one of the most notable forest-occupations in the world.

A few simple facts in regard to the Japanese camphor-industry may not be out of place. Up to quite recent times the Japanese were denuding their camphor-tree forests, situated in the provinces of Hiogo, Satsuma, and Tosa, in as wasteful a manner as the Formosa forests are now being treated; but a wise Government and a long-headed people came to see that if they were to anticipate future generations they must utilise present resources to the utmost, and by new plantations make good the old trees which have been felled. Under this enlightened policy an immense number of seedlings have been planted, and it is expected that year by year the number of trees available for felling will not diminish, so liberal have been the plantings. It is well known that the Japanese Department of Forests is one of the most business-like and useful sections of the Government of the country, and for excellence of administration the Department rivals our own Indian Forest Conservancy. It is to

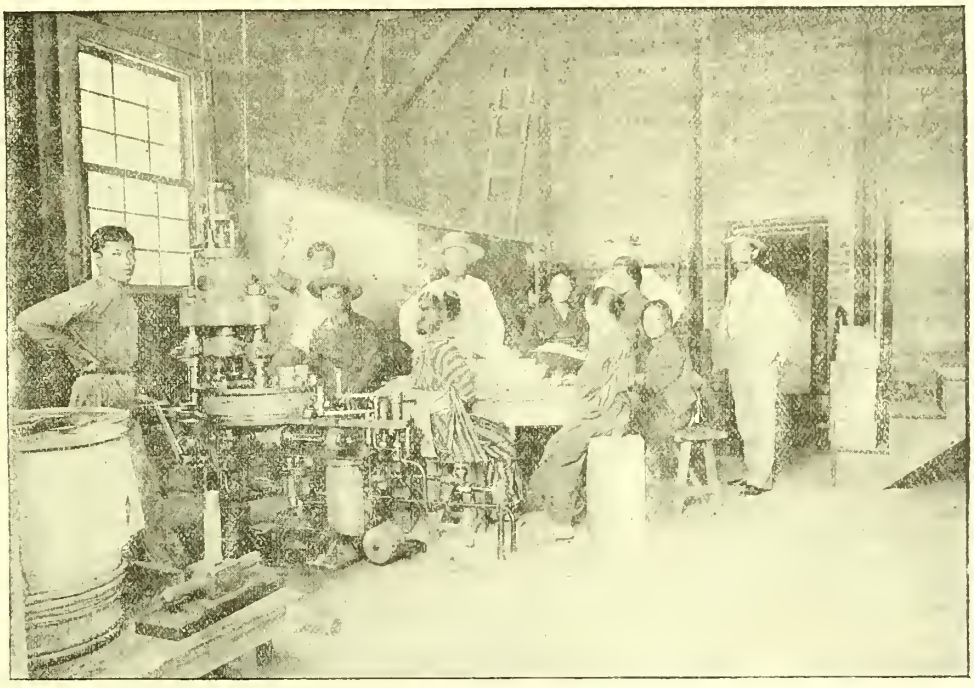
the action of this Department that the renewing of the Japanese camphor-forests is mainly due.

The original forests still contain enormous supplies of wood; indeed, it is stated that the Government reserves alone will suffice to keep distillation going at the present rate for twenty-five years to come. The wood now used is from trees of seventy to eighty years old. The tree is a most beautiful one, resembling the linden, and having a white flower which fructifies into a red berry. It attains gigantic proportions, and lives to a great age, some trees being known to be over three centuries old. The diameter of such trees is from 15 feet to 20 feet. In the province of Tosa there is a group of thirteen trees about a century old, which are estimated to be equal to 40,000 lbs. of crude camphor. The wood yields about 5 per cent. of camphor, and the roots a larger percentage.

After the tree is felled the wood is cut into chips, which are placed in the rude boiler or still shown in the engraving. This is provided with a false bottom, through which the steam rises, and as it passes through the wood it carries with it the camphor. The vapour is then conducted by the pipe to a condenser containing several partitions filled with cold water; in the sides of these partitions are apertures opening alternately, so that the vapour takes a circuitous route, and in the passage the camphor is deposited in crystals upon bamboo screens. From these screens the crystals can be readily removed, and they provide an efficient means for draining off the oil. The process is an ancient one, but it is so firmly adhered to by the natives and it suits the purpose so well that there appears still to be a long future for it. The annual export of camphor from Japan is about 5,000,000 lbs., three-fourths of which come to Europe.

The work of refining camphor in Japan was commenced at Kobe a few years ago by the Japan Camphor Company, an American corporation, registered under the laws of the State of New Jersey. They buy the crude camphor as it comes into the Kobe market, and then subject it to resublimation by a peculiar process devised mainly by Dr. A. G. Boyer, chemist to the company and manager of the refinery. Steel retorts are used, and these are so constructed that the camphor-oil and water-vapour are conveyed to one receptacle, and the camphor-vapour to a cooling-chamber, where it falls as flowers of camphor. In the next stage the flowers are compressed into small and large blocks by means of powerful hydraulic presses, one of which is represented in the second engraving. The pressure is such that the cakes come out beautifully clear and compact.

These are the principal operations in the production of the camphor. We may add that the company employ native labour for all the manual work, a considerable number of women being engaged in the packing department, for all the packages, from the smallest to the largest, are exported from Japan ready to place with the retailer. The annual productive capacity of the works is 600,000 lbs. of refined camphor. The form of this camphor with which the trade is, perhaps, most familiar is the small cubical cakes, but the company also place the camphor upon the market in flowers (for the xylonite industry), and in large cakes weighing from ½ lb. to 2 lbs. Their agents in London are Messrs. James Morrison & Co.



Compressing Resublimed Camphor.

The value of the imports of drugs into the Republic of Guatemala (Central America) in 1892 was declared at the Custom-house as follows:—From United Kingdom 3,635*l.*, from France 4,815*l.*, from Germany 3,268*l.*, from the United States 8,137*l.*, from other parts 498*l.*; the total amount being 20,153*l.*, upon which 14,602*l.* duty was collected.

Removal of Tattoo-markings.—Dr. Ohmann-Dumesnil states, in the *New York Medical Journal*, that the following method gets rid of tattoo-marks:—The tattooed part is first of all carefully washed with soap and water, then a bunch (six to eight) of fine cambric needles, tightly wound with silk thread, is dipped in glycerole of papoid, and driven with a sharp blow into the tattooed part. This is repeated over the entire stain, and must be thorough to be effective. A peculiarity about this method is that it causes no inflammatory reaction observed in tattooing with Indian ink or other pigments. Dr. Ohmann-Dumesnil considers that the digestive principle of the papoid is disseminated about the deposit of pigment, thus liberating it. A portion is absorbed, in a finely-divided state, by the lymphatics; another part probably finds its way into the upper layers of the epidermis and thence to the surface; and in this manner the pigment disappears.

Medical Gleanings.

Mercurial Liniment.

As a substitute for unguentum hydrarg., M. Monnet, in the *Rev. Ther. Méd. Chir.*, advises the use of equal parts of glycerole of starch and mercury, as it does not alter, is clean to use, and does not irritate the skin.

Tumenol in Eczema.

Dr. Fox (*Journ. Cutan.*) finds tumenol very useful in acute and chronic eczema. It acts very much like tar, but without the irritating qualities of that substance. Tumenol is a hard, resinous, bituminous substance, soluble in ether, and capable of being softened by heat and then mixed with ointments.

Laxative Pills.

	Grain
Extract of cascara sagrada	¾
„ nux vomica	½
„ belladonna	¼
Powdered ipecac.	½
Podophyllin	½

One pill to be taken at bedtime.

—Philippeau, in *Jour. Pharm. et Chim.*

Nasal Catarrh in Infants.

Dr. H. Neumann recommends the following for infantile nasal catarrh. It is, he says, specially beneficial where the blocking of the nose is such as to interfere with sucking:—

Zinci sulphatis	gr. iij.
Aquæ	℥j.

M. et solve.

Sig.: A few drops to be instilled into the nose several times a day.

Whooping-cough.

The following is recommended in the *Practitioner* to allay the distressing paroxysmal cough:—

Extracti belladonnæ	gr. j.
Aluminis	ʒss.
Syrupi zingiberis	ʒj.
„ acaciæ	ʒj.
Aquæ	ʒj.

M. et ft. mist.

Sig.: Teaspoonful twice daily.

Nettle-rash in Children.

According to the *Union Médicale*, the following ointment gives excellent results in diminishing the itching and producing a quiet sleep:—

Chloral	gr. x.
Powdered camphor	ʒj.
„ gum arabic	ʒj.
Simple cerate	℥j.

Triturate the first three substances till liquefaction takes place, and then add the cerate. Apply to the affected area at night.

A Diphtheria-mixture.

The *Practitioner* gives the following recipe for diphtheria in an adult:—

Quininæ sulphatis	gr. ij.
Liquoris hydrargyri perchloridi	♏x.
Tincturæ aurantii	♏x.
Aquæ ad	℥j.

M. et ft. mist.

Sig.: Shake the bottle, and give two tablespoonfuls three times a day.

Milk as a Dressing for Burns.

A French surgeon states that milk is an excellent dressing for burns. It should be applied by compresses soaked in it, laid on the burn, and renewed night and morning. An extensive burn on the leg treated in this manner was in three days reduced in size from 14 centimetres across to 2½ centimetres. Another burn, which had been treated for eight days with olive oil and oxide of zinc without improvement, rapidly healed under a simple milk dressing.

Therapeutic Tattooing.

We do not generally associate tattooing with improvement in personal appearance, yet it seems it may be used for this purpose. By its friendly aid, pigmented patches, birthmarks, and other unsightly blemishes can be completely obliterated. The tattooing material used is baryta-white, toned to the colour of the surrounding skin by a judicious mixture with browns and reds. Considerable experience and a good eye for colour are said to be required to ensure a successful result.—Paschkis, *Archiv. für Derm. u. Syph.* Heft 3, 1893.

Thyroid in Sporadic Cretinism.

In the May issue of the *Edinburgh Medical Journal* there is a paper by Dr. John Thomson on a case of sporadic cretinism treated by thyroid feeding which is of peculiar interest. The patient is a boy of eighteen years and eight months last December, a puny thing of 33½ inches high and idiotic expression. Then Dr. Thomson began to feed him with thyroid, a quarter of a gland twice a week, later decreased to an eighth and a sixteenth. The change under this treatment was marvellous. On April 12 he measured 36 inches, and in every respect, especially in the bright happy face, is a changed being. The results are perfectly marvellous.

Strychnine in Asthma.

Dr. Th. Mays, of Philadelphia, has considerable success in the treatment of asthma and bronchitis by means of subcutaneous injections of strychnine in minute doses, simultaneously giving the following in cachet or pill:—

Phenacetin	ʒj.
Sulphate of quinine	ʒss.
Chloride of ammonium	ʒiss.
Powdered capsicum	gr. iv.
Sulphate of strychnine	gr. j.

Mix, and divide into thirty-two doses.

One dose four times a day.

Salol in Dysentery.

From long experience with this drug, Dr. Agia Ram considers (*I.M.R.*) it a specific for dysentery. He gives it in the following combination, which acts both as a purgative and a curative medicine:—

Salol	gr. xxx.
Olei ricini	ʒiij.
Sodii bicarb.	gr. xl.
Mucilag. acac.	ʒj.
Aquæ chloroformi ad	ʒviij.

1 oz. to be given every three hours.

The taste of castor oil may be removed by a drop of cinnamon or eucalyptus oil.

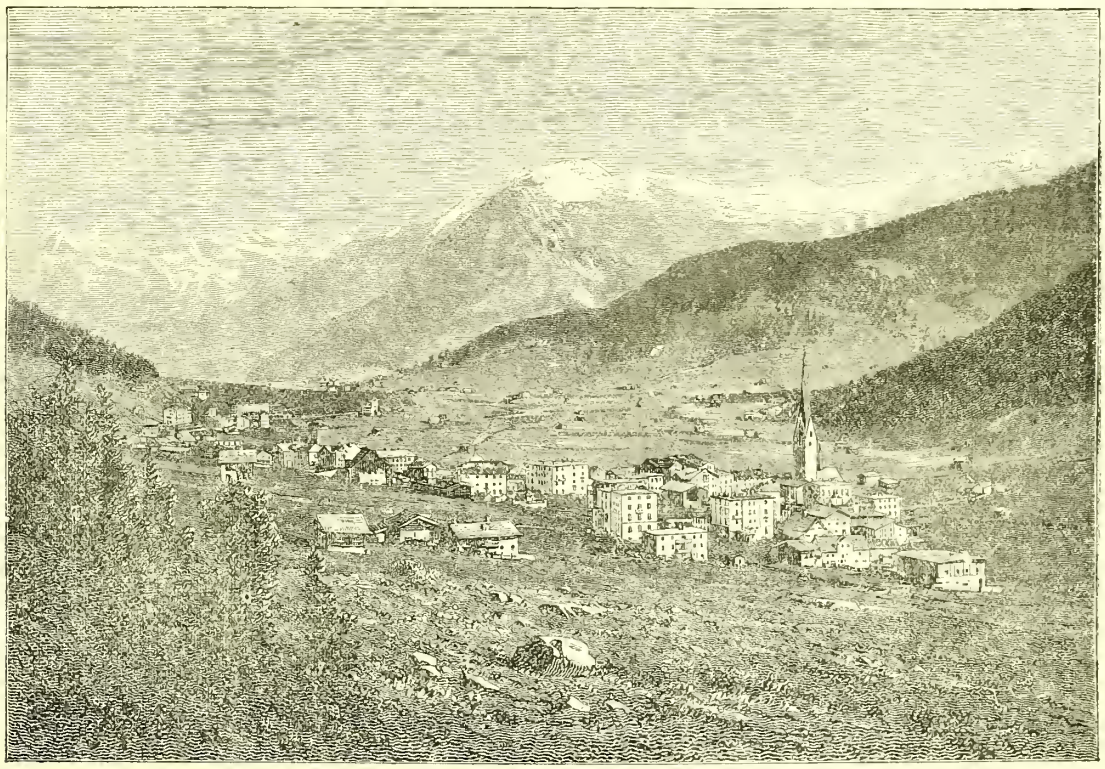
Diachylon as an Emmenagogue.

Last year a young woman died in Leicester from lead-poisoning, following the use of diachylon taken to produce abortion. At the inquest it transpired that the use of diachylon for this purpose was well known amongst the working women of the locality, but medical men could not give any reason for it at all. Dr. Frank M. Pope, of the Leicester Infirmary, in a paper on the case (*B. M. J.* 1696, p. 9), suggests a possible origin for the custom. Diachylon, he remarks, is a plaster as old as Galen's time, and older, but it had not then its present simple constitution. It contained, in addition to litharge, marshmallow, linseed, and fenugreek, and may have had this composition till comparatively late times. Hippocrates recommends lint-seeds among other things as an emmenagogue, and Pliny and many others say that fenugreek is an ecbolic. Old superstitions die hard. Is it possible that we are dealing with one dating from the time when diachylon contained these drugs, and that it then had a reputation as an ecbolic which has been transferred to its successor in the Pharmacopœia? There is another plaster mentioned by Paulus Ægineta similar to diachylon, containing marshmallow, linseed, fenugreek, and, in addition, rosin, tears of ivy, and turpentine, but no litharge. Is it possible this was also known as diachylon, and, being comparatively harmless, was used as an emmenagogue?

PHARMACY IN DAVOS PLATZ, A SANATORIUM IN SWITZERLAND.

By S. M. Burroughs.

WHEN on a visit to Switzerland in the summer of last year I heard frequently from doctors and chemists of the fame of Davos as a resort, especially for consumptives, in the winter-time, and for health and pleasure seekers in summer. I determined, therefore, last November to go out of my way to visit this interesting place. The journey from Zurich by rail now occupies one day, instead of three or four days before the railway was finished. The route is first along the shores of the beautiful Lake Zurich. A change of cars is made where the railway ascends through a narrow valley by the side of a mountain stream. The locomotives are constructed so that when necessary cog-wheels fitting into a central track can be utilised for dragging the train up the steepest places. While verdure and flowers are everywhere seen in the valley, snow-capped mountains line the horizon on nearly every side. In the winter fogs and mists are frequent in the valleys, and it is very delightful in taking the train to emerge from them into the bright sunlight. The train climbs by the side of a deep ravine, and finally crosses it to creep over the ledge of the mountains on the northern side of the valley of Davos Platz. The ledge is at an elevation of about 5,200 feet above the sea, and is covered with snow from October until late in the spring. From this ledge a beautiful lake is descried at the lower end of the valley, and beyond it three or four villages, the largest of which, towards the upper end, is Davos Platz. The train rapidly descends to the level of the lake, and then goes slowly upward again to Davos Platz, where there is a fine station and many splendid hotels on the side of the mountain. The air here, though very cold, is remarkably dry and clear. All moisture seems to have been taken out of it, being intercepted by the snow peaks which enclose the valley on every hand, rising 6,000 or 8,000 feet. In consequence of the clearness of the air the sunshine is unusually brilliant. Delicate and pale-faced people, after three or four days' residence, acquire a ruddy appearance of health from the action of the sun. The air is not only free from moisture, but also from all impurities. Pieces of rock at the tops of the mountains, outlines not larger than a man's head, can be distinctly seen by the naked eye. The village is situated nearly at the highest level of vegetation. The limit of perpetual snow is but a little higher up. There are forests of pine-trees everywhere on the mountains, and other plants of a hard and stunted character grow a little higher. Beyond these no vegetation can exist. No kinds of crops whatever can be raised in the valley owing to its altitude and the short season. The air is very delightful and exhilarating to breathe. It possesses, of course, an unusual amount of ozone scented with fragrant odours of the pine. The *Pinus pumilio* grows most abundantly at this height, and there are several other pines. The hotels are very large and commodious; some of them, like the Belvedere and Kurhaus Davos Platz, are heated by steam throughout. Several people whom I met there assured me that they were obliged to come to Davos every winter, as it was the only place where they could live with any comfort or safety. Many English and American physicians are sending consumptive patients there every year. Except in the most severe cases a recovery is usually experienced, with proper medical treatment, in one or two seasons. Some patients spend the whole year round in this delightful place.

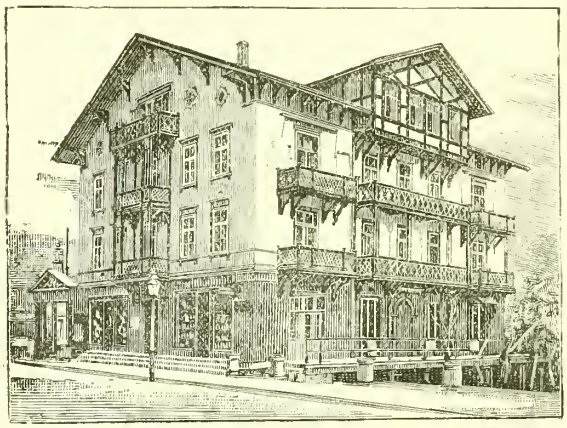


Davos Platz.

There are two English physicians, Dr. Haggard and Dr. Wise (also Dr. Buol, a Swiss, who has studied in England and passed the English examinations). There are, besides, several Swiss and German physicians, some of whom speak English.

The English Pharmacy, Villa Batava, opposite the Kurhaus Davos Platz, is of special interest. Although it has only been started nine months, it has already a very large dispensing business. It is a branch of the well-known Hecht Pharmacy, C. Fred Haussman, St. Gallen. The manager of the business, Mr. König, was at one time dispenser at the French Hospital in Shaftesbury Avenue, London, and later on with Messrs. Wilcox & Co., of Oxford Street. I was much surprised to see so handsome a pharmacy in such an out-of-the-way place. Large stocks of English medicines are kept

on hand, including nearly all those that would be found in a West-end drug-store. Drugs and medicines prescribed for affections of the throat and lungs are, of course, stocked very heavily. There is a large sale for cod-liver oil and its preparations, also for creosote, guaiacol, benzosol, iodoform, salol, preparations of tar, inhalers, extract of malt, hypophosphites, &c. The pharmacy has been fitted up most tastefully. On one side is the desk for English customers, on the other for those who do not speak English. The space in front of the counters is utilised for showcases. In the rear is a large and convenient store-room, necessitated by the fact that large stocks of medicines, &c., have to be kept always in hand. In such a place the pharmacy is a sort of headquarters where you can expect to see almost everybody in Davos at least once a week. While Davos Platz is very desirable as a resort for consumptives, it is equally desirable for any who suffer from nervous prostration, and need a tonic health-giving atmosphere. The sports are a valuable adjunct to the health-cure,



and you can see ladies skating on the ice and carrying parasols over their heads to prevent sunburn, while near by on the tennis-court the players wear straw hats and thin flannel garments. Pedestrians usually go out without overcoats, while the townspeople who have to step across the street on business matters never think of putting on their hats. It is also very common for people to take their Christmas dinners out of doors on the verandahs. The valley is almost entirely sheltered from winds—only a very little can get in from one side. Tobogganing is one of the chief sports, and splendid slides are obtained from the mountain-sides down to the ice-lakes.

I did not stay long enough to enjoy any of the sports of the place, but all who were able to do so appeared to be greatly benefited by them. Winter or summer, Davos and the Engadine of Switzerland are very delightful, and especially beneficial to any who need toning up, or who suffer from throat or lung difficulties.

Davos makes steady progress, though it depends only on its fine climate for prosperity. Some of the shops and their contents would do credit to any capital city. The winter season begins in October or November, and ends in May. The summer season is from June till September.

ON A NEW BLOWPIPE ARRANGEMENT.

By William M. Hamlet, F.I.C., Government Analyst, N.S.W.

THE blowpipe, of which an outline drawing is included here, consists of the usual fine platinum jet fastened to a brass tube, jointed on to a sliding-rod inserted into a brass stand, by which means the jet may be inclined to any desired angle.

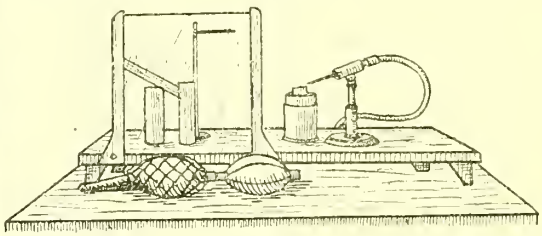
The air-blast is urged by means of one of the ordinary caoutchouc spray-producing bellows, which, in its turn, is attached to a piece of capillary lead-glass tube, over one end of which a piece of oiled silk is tightly tied, thus forming a valve that only opens inwards and prevents any back-flow of air. The valve is passed through a cork and inserted into the inlet of an air-tight chamber, made of tin plate, and measuring $10'' \times 8'' \times 1''$. This air-chamber is placed out of sight by screwing on to the under-side of the blowpipe-table, which measures $18'' \times 10''$ and stands on four legs $1\frac{1}{2}''$ high.

To the left of the front is an upright frame made to hold a sheet of glass six inches square; into the groove made in the frame, ruby, violet, green, or colourless glasses may be inserted as wanted. At a point 2″ from the left edge is a brass rod 6″ high, which serves to hold a glass tube bearing a fine platinum wire for flame-reactions.

The lamp may be any one of the many varieties of paraffin or grease lamps having a flat wick. In my own case I employ the lamp found in Fletcher's blowpipe outfit, using solid paraffin as fuel. On the extreme left, just midway across the board is a brass plate, $2'' \times 1''$, hard-soldered on to a universal joint (not shown in the sketch).

This forms a convenient support, when protected by a piece of asbestos millboard, for charcoal pellets or cubes as well as for the plaster slabs and aluminium plates. The upright prism of porcelain is used for cupelling.

On the right is embedded into the table a flat steel anvil



and an agate mortar. Such a blowpipe becomes a valuable adjunct to the laboratory equipment, and instead of the blowpipe being despised and consigned to the drawers or box of odds and ends it finds a useful place on the working-bench. With such a piece of apparatus one can get a very clearly-defined reduction or oxidation flame, and when the jet slopes down on to the wick at the proper angle it is easy to produce a flame four inches long, and so steady that I have actually cupelled off a lead button as perfectly as it could have been done in the muffle. Such a thing is sometimes stated in books, but I never saw it accomplished until I actually did it myself with the apparatus I now describe.

Using the flame coloration and a violet screen, it is quite possible to see the potassium flame amid the abundance of sodium salts in urine. Conversely, the presence of sodium salts in potassium compounds may be recognised by using the green-tinted screen.

Altogether it is the most efficient and the most easily handled blowpipe arrangement I know of, and I made good use of it during my visit to the Broken Hill silver-lead mines. With the steady flame obtained, Von Kobell's reaction for bismuth compounds gives most brilliant results on a slab of plaster of Paris, and with dry thio-sulphate all the reactions may be instantly obtained in the dry way that are usually given in the wet way with sulphuretted hydrogen.

Women-doctors for India will in the end, according to Dr. Garrett Anderson, be supplied from Indian rather than from English women. Several Indian ladies are now studying medicine in England.

Three Thousand Pounds for an Advertisement.—The United States Company, which runs Mellin's food there, have recently paid $15,000 for a single insertion of an advertisement in a special number of the *Youth's Companion*.

HASHISH IN EGYPT.

By W. C. MACKENZIE, D.Sc., Ghizeh, Cairo.

THE word "hashish" is not unfamiliar to pharmacognosists, and some of its derivatives are interesting—assassin, &c., from "hashasin," حشاشين, which is the plural of "hashash," حشاش, meaning one who smokes hashish. The significance of the English word and its connection with the Arabic give us a hint as to the results produced by smoking this drug.

The importation of hashish into Egypt and its growth are forbidden by the Government, but the regulations are not sufficient to prevent its use on a somewhat extensive scale, and consequently there is a lively trade done in it by smugglers. Three consecutive paragraphs from the *Egyptian Gazette* for December 31, 1892, are as follows :—

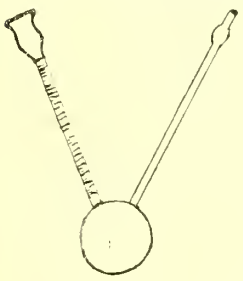
On a cask of oil being examined yesterday at the Alexandria Custom House it was found to have a double zinc lining ; the intermediate space was full of hashish.

Yesterday the Coastguard officials noticed a native boatman place two packages in an empty lighter. On being seized the packages were found to contain hashish.

At 3 o'clock this morning a boat was seen to leave the Russian s.s. *Czarewitch*, into which a large package had been placed. An alarm was given by the guards firing off their revolvers, and the Coastguard boats gave chase and succeeded in capturing the boat. The package is stated to have contained hashish.

Greeks are the chief smugglers, and the state of the international law renders punishment of the offenders difficult. The plant is also grown clandestinely to a small extent.

Hashish as bought from a shop (and that is easily done) is an earthy-brown substance in lumps, which may be easily broken. It is prepared by taking the small leaves and female flowers from the tops of *Cannabis indica*, rubbing them down to a powder, putting through a fine sieve, and heating the dark-green powder thus obtained till it becomes cohesive, and then working up into lumps by the hand. It is smoked in a special pipe called a *goza*, having a bulb for water and two tubes, one for the mouth and the other for the bowl. It is charged first with tobacco of a strong black variety, used only for this purpose, then above the tobacco is placed a small piece of hashish, above which is laid a piece of red-hot charcoal. The odour of hashish is very peculiar, easily recognised, and not to be mistaken for anything else.



It first produces exhilaration, in which stage, no doubt, are committed the crimes which have gained for it its evil reputation ; this is followed by a dreamy condition similar to that enjoyed by opium-smokers, and, no doubt, constituting the charm which tempts the *hashash* (as the hashish-smoker is called) to a miserable future. Insanity is a frequent result of the too-free indulgence in this species of intoxication, and there are many to be seen who, having been well educated, and having filled important posts, have fallen victims to the drug.

Hashish-plants grow to the height of 8 feet, and are frequently 1½ inch in diameter at the foot of the stem, which is hard and woody, and which, if the plant be grown by itself, may be branching, but when grown in quantity is usually erect, with little or no branching.

The seeds of *Cannabis indica*, although almost identical in appearance with those of common hemp, differ in having a tougher coat, which difference may be distinctly observed by taking the seeds between the teeth and crushing them. The hashish-seeds are also more flattened and sharper at the edge when cut through the middle ; the section thus seen shows a dark line between the husk and the albumen, while in common hemp-seeds this dark substance is not so conspicuous or is absent altogether.

The active principle of hashish is generally supposed to be a resin, which was first obtained by T. and H. Smith ; other investigators have isolated a volatile oil named cannabene (Personne), and an alkaloid, tetano-cannabine (Hay). Nicotine is said to have been obtained, but that has since been denied, and some authorities say the active principle has not yet been isolated.

By distilling hashish with water in a current of steam the writer has obtained a colourless volatile oil with a most penetrating odour, identical with that given off by heating hashish in a dry test-tube. For several days the condenser-tube smelled of this oil, even though the amount was very small (1 per cent.). The residue having been filtered off, the liquid on evaporation gave a residue, insoluble in alcohol and ether, equal to 6·7 per cent. The substance insoluble in water, after drying, gave 55·5 per cent. of a brown oily body by extraction with petroleum ether. By distillation this oily substance gave off, first, some colourless oil (230° C.) with a strong but not unpleasant odour somewhat resembling malt vinegar, and later, a thick, yellow substance (320° C.), the odour of which reminded one of crude shale oil. The residue, after extraction with petroleum ether, was treated in the same way with alcohol, and gave 6·5 per cent. of a brown resin, which melted at about 70° C. The residue, insoluble in water, petroleum ether, and alcohol, equalled 31·80 per cent., and contained mineral matter equal to 13·7 per cent.

Approximate Composition of Hashish.

	Per cent.
Volatile oil	1
Substances soluble in water..	6·7
Soluble in petroleum ether (oil)	55·5
„ alcohol (resin)	6·5
Insoluble organic matter	13·1
„ mineral „	13·7

"GUIDE TO THE PRELIMINARY EXAMINATION."

2*s*. *Post free*, 2*s*. 3*d*.

We have received a copy of the "Complete Guide to the Pharmaceutical Preliminary Examination," by William Dodds, published at the offices of THE CHEMIST AND DRUGGIST. To those for whom the volume has been compiled we have no hesitation in saying that it is "just the thing." Such aids to examinations are especially useful, and are not harmful in any degree.—*Medical Press*.

Any wholesale drug or sundries house will supply this book at the published price. The following firms have already stocked it :—

Ayrton & Saunders, Liverpool
Barclay & Sons (Limited), London
Bleasdale, Wm., & Co., York
Duncan, Flockhart & Co., Edinburgh
Edwards, W., & Son, London
Glasgow Apothecaries' Company, Glasgow
Hirschfeld Bros., Bream's Buildings, Fetter Lane, E.C.
Kimpton, Henry, 82 High Holborn, W.C.
Lloyd, T. Howard & Co., Leicester
Maw, S., Son & Thompson, London
Newbery, F., & Sons, London
Potter & Clarke, London
Raimes, Clark & Co., Edinburgh
Raimes & Co., York
Smith, T. & H., & Co., Edinburgh
Thompson, John, (Limited), Liverpool
Woolley, James, Sons & Co., Manchester

THE IMPERIAL INSTITUTE.

A Walk through the Courts.

In a recent issue we described the general arrangements of the Imperial Institute Buildings. We will now take a walk through the courts occupied by some of the principal colonies and dependencies and examine in detail the facilities which they offer to the trader or student desirous of investigating some question in connection with their natural products. The first idea which presents itself to the visitor, and which becomes stronger the more the matter is gone into, is that the space which has been put at the disposal of most of the dependencies for the purposes of storing their products is ludicrously inadequate. New South Wales, for instance, which is better treated than most other colonies, has a room allotted to it measuring 46½ feet in length by 30 in width. The two gangways have to come out of this space, and what is left is supposed to afford enough room to exhibit the mineral, vegetable and animal wealth of a country 311,000 square miles in extent. Needless to say, only a few of the principal industries can be shown, and that imperfectly, in this preposterous cubicle, the insufficiency of which becomes all the more apparent when it is recollected that the Imperial Institute is supposed to be a mine of information not only for those who want to know something about the staple products of a colony, but especially for those who seek enlightenment on points of interest connected with comparatively obscure industries, or of products in which no trade has as yet been developed. It is sincerely to be hoped that this evil will be remedied without much loss of time, even though the palatial Fellows' billiard-room and some of the stately but rather useless conference-rooms should have to be sacrificed to these more urgent needs, or even at the expense of boarding off some of the space wasted upon the entrance-hall, which is no doubt magnificent, but which might well have been made subordinate to the educational departments of the establishment instead of crowding them into corners.

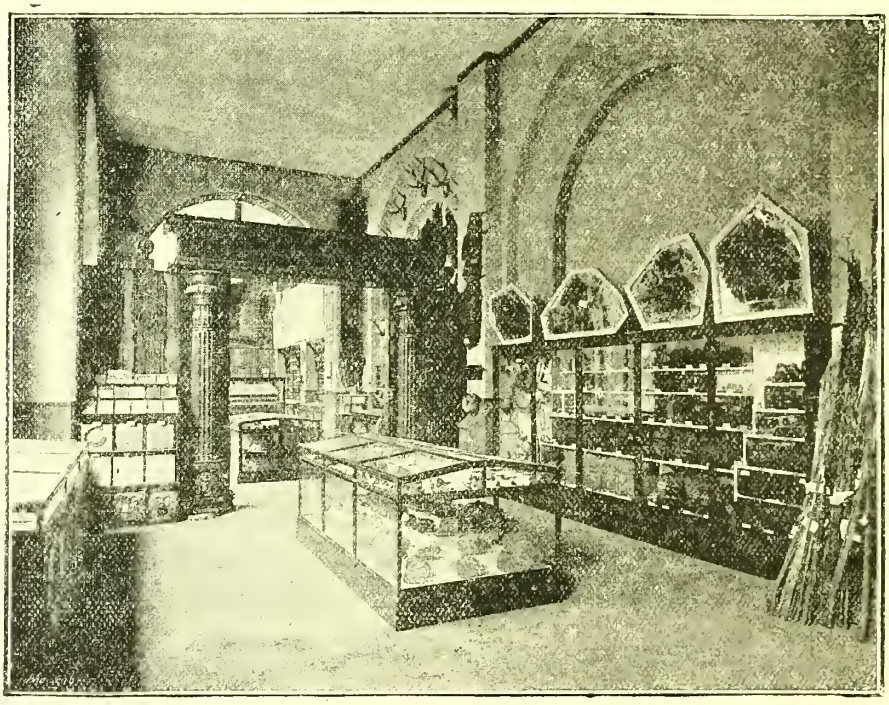
British India, as beseems a country that has given in voluntary donations over 100,000*l.* towards the Institute, is fairly well housed, about two-thirds of the Eastern Arcade, about 320 feet in length, having been set apart for it, in addition to a handsome pavilion, about 130 by 50 feet between the arcade and the pleasure-gardens. The remainder of the arcade gives shelter to the exhibits of Ceylon and the Straits Settlements, dependencies for which at present no manager has been appointed, and over which the Indian curator meanwhile casts the odd glances of his eye that are not absorbed by the care for his own department.

The Indian curator, whom our representative found busy with an assistant in ticketing various drugs and herbs, is Mr. J. R. Royle, C.I.E., the son of the author of the well-known materia medica handbook.

A Chat with Mr. Royle.

"Well," said Mr. Royle, when our representative had complimented him upon the appearance of his section, "we don't profess to have everything in order yet by any means. Still, I flatter myself this court looks as well as any in the building. Many of the samples, however, as you will see upon closer inspection, are old and discoloured. They date from the Colinderies of 1887, but they will gradually all be replaced by fresh specimens. Government agents are now making collections all over India, and it is estimated that in five years' time from now the scheme will be completed. Ranged along the walls of this court you see a number of tall cases in which I keep my samples. They are all numbered with a figure corresponding with that on the bulk samples below (which I shall show you presently), and if anyone who comes here to examine our goods is not satisfied with the light of our bulk-rooms in the basement, I can take him up by lift to a special sample-room on the top floor, where he will find the best light London affords. The Indian section has been divided into various economic groups, and it is the object of the Government to complete these one after another, taking up a fresh batch of subjects, as it were, year by year. They have recently been engaged in completing our exhibit of Indian coal and iron, and you will find that, so far as those two articles are concerned, our section is as full of information as any museum could be."

And with that Mr. Royle conducted us along some of the tables in the centre of the arcade, and pointed to a series of bright-coloured maps on the wall, showing the situation and extent of India's coal and iron deposits. The walls are further



View of the Indian Arcade.

tastefully decorated with carved spandrils and richly worked panels, and with a gay array of cotton and silk stuffs, illustrating the effect of the native dyes exhibited in profusion in the showcases below. The Indian Government have made a considerable grant of public money for the purpose of worthily illustrating the natural resources of their country, and among the goods received already are a considerable number of drugs, tanning and dyeing materials, of much interest and possible commercial value. Mr. Royle does not always wait for private persons to come to him, but in many cases sends samples of goods which he considers deserving of being made known to chemists, merchants, and others, in whose hands he thinks that they will be well placed.

"Dr. Watts' great dictionary of economic products has been taken as the key to the Indian exhibits, and every sample bears a number corresponding with the page in which it is mentioned in that work," explained Mr. Royle, as we stood before a gigantic log of "Padawk" wood (*Pterocarpus indicus*). "You see, this log has the reference number '1316' upon it. Now, on that page of the dictionary you will find detailed information concerning the tree. The same with the number on this other slab of wood, which is a beautiful section of a deodar-tree (*Cedrus deodara*), a well-known ornamental conifer."

Commercial Handbooks.

"But is Dr. Watts the alpha and omega of your knowledge?"

"By no means. We collect, again largely through the Indian Government, a lot of out-of-the-way information of commercial and scientific interest on certain important products, and publish it periodically in handbooks which are intended to become standard works of reference at a popular price. Each article is described separately in a small pamphlet, and these may be had almost at cost price for a few pence each. The books are compiled by Mr. E. Thurston, officiating reporter on economic products to the Indian Government. We have already published such books on castor oil, Indian podophyllin, Indian jalap, and a host of other subjects. Here are some specimens," continued Mr. Royle, pulling a few pamphlets out of a private drawer.

"I should like to buy a set of these," said the *C. & D.* man.

"That's where the difficulty comes in at present," answered Mr. Royle. "These books are printed in India, and although I have urged upon the authorities, from time to time, the desirability of offering them for sale at popular prices in this section, it has only just been decided that they shall be on sale at the Imperial Institute; but you must go to the library for them."

And Mr. Royle gave our representative a note to the librarian, which was duly carried upstairs into that gentleman's department. The librarian, however, was out, and his assistant dared not take upon himself the responsibility of selling the pamphlets, so that the order remains unexecuted. There are no doubt a good many people interested in Indian economic products, but few can be expected to muster sufficient ardour in the pursuit of a twopenny pamphlet to procure, first, a solemn order from the Indian curator upon the librarian, and then to hang about in the last-named gentleman's ante-room for an indefinite period. These circumlocutory proceedings are at variance with the general progressive ideas the Institute managers are believed to entertain, and we trust that they will see fit to place the pamphlets, as well as any other books of information that may be issued, for sale to all comers at Mr. Royle's office. Another grievance to which attention may as well be called here is the absence of catalogues in nearly all courts. The incompleteness of the exhibits ought surely not to prevent the compilation of temporary catalogues, to be replaced by fuller editions when the collections are completed.

But to return to the Indian Court. The richness of the country in workable woods is illustrated, in the accustomed exhibition-fashion, by specimens of each kind, polished and rough, in the form of wainscoting along part of the walls. There are also a number of good groups in coloured clay, showing the various processes of manufacture of indigo, jute, cotton, and other staple products. The collection of raw silks and silk fabrics is exceedingly fine, and above the section devoted to each of these materials is a coloured map, showing the districts of the country in which the cultivation is pursued. Vegetable dyes are also very largely represented, some silk dyed a splendid orange by means of kamala being particularly noticeable. It would be strange indeed if India were to avenge herself upon us for flooding her markets with trashy coal-tar dyes by popularising in this country the use of some of her abundant vegetable dyeing-materials, of which, no doubt, only a small number have ever been thoroughly tested.

The Drug Section.

In the drug-section there is a large collection of gums and resins; but most of them are badly numbered and many misnamed. They are relics from the Colonial Exhibition, and the sooner they are replaced by a fresh set the better. Indian jalap, marshmallow and marigold flowers, and cinchona-bark alternate with samples of Thibetan borax crystallised on strings ("we get them usually on wire," soliloquised Mr. Royle), that has just been unpacked, while cubebs and essential oils are in the immediate neighbourhood of gurjun oil-varnish from Chittagong. All these things will be put in proper order in time, no doubt, and it is fortunate for Mr. Royle, who is no pharmacist, that he will have in this department the advantage of being able to consult an assistant who has been brought up in a large London wholesale drug-house. The maps, too, begin to get mixed in this section, that hanging over the medicinal drugs representing, not their habitats, but the geographical distribution of Indian religions.

The *Podophyllum Emodi* is well represented, first by mounted specimens of the plants, about a foot in length, collected in the Jamsar Division of the North-west Provinces, then by samples of the root, and next by a considerable quantity of the resin prepared by Kemp & Co., of Bombay, who manage to get a good advertisement in various parts of the section. There is jalap—not the tuber, but the sliced stems of the drug—from the Madras Bazaar, with a note giving the place of origin of the drug as Turipettum, and a good collection of nux vomica seeds as sold in the Indian bazaars. These seeds are called "kuchla" by the natives, and have been sent in by the keeper of the medical stores in Bombay. The best kinds come from Mellore, Madras, and are known as "mushtii."

The root of costus (*Saussurea Lappa*) is used as a substitute for orris in India; but it is much inferior in appearance to even the Mogadore orris of our markets. There are some interesting samples of Indian senna (*C. angustifolia*) from Secunderabad and Hyderabad; but an exhibit illustrative of the Tinnevelly industry, which would have been interesting, is wanting.

Oils and Oil-seeds.

The essential oils contain some good specimens. Dr. Kanny Lal Dé Rai Bahadur, C.I.E., has presented a collection of about forty different essential oils, mostly, we regret to say, without names or particulars, and likely to be decomposed out of recognition by the fierce light that beats upon the court before the curator can struggle through his task of classification up to the point where they belong.

"You see," put in Mr. Royle, plaintively, "the Government send us the goods over in alphabetical order, and they have only got as far as the letter D at present. So what are you to do?"

A Madras firm exhibit some fine eucalyptus oil grown in the Nilgiri Hills, and in a glass case in the corner is a good collection of tall red and brown grasses used primarily for cattle-fodder, but also employed for the distillation of essential oils. There is the rhusa-grass from the N.W.P (Saharunpore), the geranium-grass, and the "Roselgarat" or *Andropogon Schœnanthus*. The collection of castor oils is perfectly bewildering. rape and mustard oils also are strongly represented, and in one of the cases some enterprising makers of chutnees and pickles in Madras contrive to obtain a good advertisement by showing a huge trophy of their wares.

A set of coffee-samples has been sent by a firm of Mincing Lane brokers, while the Indian Tea-planters' Association have sent a fine collection of tea-specimens. Upon the whole, it would seem desirable to formulate some terms upon which exhibits of private firms should be accepted, if admitted at all; for it is plain that a large number of 'cute business-people, under the guise of assisting in the formation of a collection of samples, have mainly had the object in view (and realised it) of advertising themselves. It must be ad-

mitted, though, that there is less of this sort of thing in the Indian Section than in any other.

The Indian pavilion is mostly devoted to art-ware. It is a handsome glass-roofed apartment, and was erected especially with the object of accommodating the magnificent carved screens which were exhibited at the Colinderies by some native Indian princes, who have presented them to the Institute. Models of artisans at work, pottery, bronzes, &c., also form interesting objects of this pavilion.

Ceylon.

The Ceylon Court is at the back of the Indian. Its exhibits were arranged by Dr. Henry Trimen, F.R.S., and it is supposed to be quite ready. But the great trouble, want of space, has also hampered very considerably the proper display of the specimens collected here. In this court, as might be expected from the fact that a distinguished man of science connected with the island has superintended the ordering of the exhibits, the specimens are all properly labelled in Latin, English, and a native language, either Sinhalese or Tamil. A good catalogue (from a scientific point of view) has been prepared by Dr. Trimen, its only defect being the meagreness of its information, which in most cases is confined to the names of the substances shown. The Ceylon Court is entered by a gateway of carved ebony and cocoanut-wood, which is a replica (full size) of a stone gateway still existing at Yapahu, in the North-West Province, where are the ruins of an old palace of the Sinhalese kings. The panelling on either side is made of tamarind-wood.



View of the Ceylon Court.

Some distance away from the Ceylon Court is a handsome porch, the carved pillars and joists of which are copies, in teak, of those in the audience-hall of the palace of the kings at Kandy, now used as a court of justice. Ceylon is, moreover, in evidence in various parts of the grounds, where her teas and coffees are dispensed to the thirsty by neat uniformed waitresses.

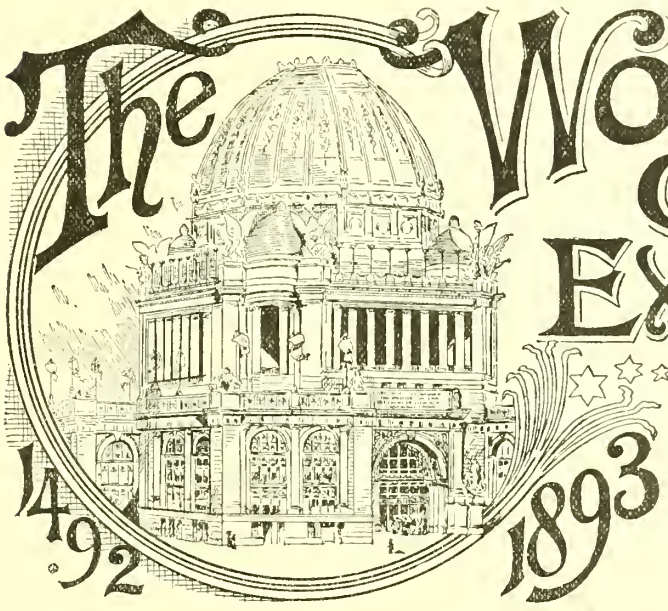
The only exported drugs from Ceylon shown in the court are ten samples of cinchona-bark from the three estates, coca-leaves from the Botanic Gardens, kola, and nux vomica. But as a set-off against this poverty, which fails to do justice even to the decaying cinchona-industry of the island, there is a collection of no fewer than 277 kinds of native drugs, all of which Dr. Trimen has succeeded in naming botanically. Seventeen of these come from Jaffna, and are also named in Tamil; 260 from the Central Province, forwarded by the Botanic Gardens, have Sinhalese names attached. This arrangement will be found of great value by druggists who, as frequently happens, receive offers of or inquiries for drugs by their native names only, and who will here be able to verify them easily.

There are some fine sets of photographs showing tea, coffee, and cocoa preparation, and a good collection of gums and gum-resins, to which merchants would do well to devote some attention. It is remarkable how faithfully in all collections of Ceylon produce samples of gamboge turn up. Here is one, too, duly labelled *Garcinia Morella*, native name Ko Katiya (Gamboge ?), from Uva; and, next to it, a sample of Ceylon kino, from *Pterocarpus Marsupium*. At the present market rates it ought surely to pay to collect both products.

The Straits Settlements.

If the labelling of the exhibits in the Ceylon Court is particularly accurate, and may serve as a model for the whole Institute, the less said about that in the Straits Settlements Court, its next-door neighbour, the better. The section is also entered through a splendid arch made from specimens of native timber, the gift of the Sultan of Johore. The walls are nicely decorated with trophies of rattans, basket-work, Malacca canes, and so forth. Minerals, notably tin and gold ores, form a principal feature in this court. Rice, sago, and tapioca are also prominent. Although a great deal of rice is grown in Malaysia, the production is not sufficient for the wants of the inhabitants, who draw the surplus from Siam.

Among the drugs shown we noticed a specimen of coca-leaves ("coco" the label has it) from Perak, where the plant is said to flourish, though the sample shown here is but a poor one, and a sample of grey cinchona-bark in small quills, also from Perak. It would have been interesting to hear where this bark was grown, and whether the supply of it is likely to be considerable; but the specimen was not numbered in the catalogue, neither was there any attendant nearer than India. Two or three Singapore export-houses have each a nice case of samples of benzoin, damar, and dragon's-blood, with their names attached. There are some very fine specimens of Siam and Sumatra gum here, and also some very inferior samples of "black" and "white" benzoin collected in Malacca and Perak, and not usually seen in European commerce.



THE representation of American pharmacy and its allied trades at Jackson's Park is so varied and voluminous that it is difficult to attack it in anything like a systematic manner. It has not been thought necessary by the American Pharmaceutical Association to give any exposition of the growth of pharmacy in the States, or to represent, graphically or otherwise, the numerous organisations which exist there for promoting pharmaceutical education and professional fraternity. The Chicago College of Pharmacy has a nice exhibit in the Liberal Arts Gallery, reproducing a section of the dispensing or pharmaceutical laboratory of the College. To this we shall refer in detail later on. Meanwhile, it is but fair to say that it is

AMERICAN WOMEN-PHARMACISTS

who figure in the Fair as the chief exponents of retail pharmacy. We referred two weeks ago to the circumstances which led up to the formation of the Women's Pharmaceutical Association of Illinois. Some of those in business in Chicago determined about a year since to show how well adapted pharmacy is as an occupation for women by making a suitable exposition of the practice of pharmacy in the Fair. When they sought the aid of the Women's Committee of the Fair they found that money could only be given to incorporated bodies. So they applied for and obtained a charter. They had expected to get a room in the Women's Building for the model pharmacy which they proposed to show, but were told there was no space to spare. If they had been ordinary men, they would have stopped there, blessed the Fair, and gone their own ways. But they were women, and they had a very energetic person, Mrs. Ida Hall Roby, Ph.G., who is in business in Thirty-first Street, Chicago, as their President, and under her guidance they obtained a money appropriation from the Women's Committee, joined the lady-medicals, got an allotment of ground west of the Women's Building, and there a most quaint-looking hospital of the bungalow type has been built. The hospital occupies the greater part of this building, the pharmacy being placed on the south apartment.

Miss Jean Gordon, a graduate of the Philadelphia College of Pharmacy, is manager of the pharmacy, and from her our representative obtained some interesting particulars of the work that is to be done, and of the present position of women-pharmacists in the States.

"We found," said Miss Gordon, "when the scheme was first spoken about, that there were fifty-nine registered women-pharmacists in the State of Illinois, and fifty others engaged as assistants. Nearly the whole of these have joined the Association. We have had trouble to get the exhibit this length, but Mrs. Potter Palmer, the chief of the Women's Section, has been very kind, and Mr. Higginbotham has presented this building. We asked all the principal firms to contribute to the scheme, and most of them have been liberal to us. Mr. Bangs, of Boston, has fitted up the pharmacy for us: he loans the fittings, you know. One firm has given the bottles, others chemicals, drugs, apparatus; in fact, as it stands, the pharmacy is a monument to our colossal begging."

"What are you to do? Dispense for the hospital, or will you run the exhibit as a regular drug-store?"

"Yes; we hope to do some business. When the preliminaries were arranged I was appointed manager, and I have the assistance of four clerks—all women, of course. We have been preparing for opening this six months past [the pharmacy was not yet opened at the date of the interview] by making tinctures, and other galenical preparations. Nearly all our stock of that kind we have made ourselves. The compounding department will be there" (indicating a spot opposite the entrance), "and on that bench there will be apparatus, tablet-machines, and so on. Here will be the retail counter. It is all business with us, and I hope we shall get many customers."



MISS JEAN GORDON, PH.G.

"Then it is only a model pharmacy in respect to the fact that you will show the public what women can do in the drug-trade?"

"Exactly. We want to show that we can do the work as well as men."

"How do the public regard this service; sufficiently well to make pharmacy a popular pursuit for women?"

"Progress is slow. The trouble is most of us get married and then abandon pharmacy. Not all, however. Our president, Mrs. Roby, is the wife of a pharmacist; so is Mrs. Cummings, and there are others I could name who have married and still retain a practical interest in pharmacy. It is not easy for women graduates to get situations in stores,

and as a rule they aim at dispensorships in hospitals, and they get them. You will find some particulars in the Women's Building."

Miss Gordon then chatted about the Women's Congress and the part which English women-pharmacists might take in it. speaking intelligently on pharmaceutical matters generally. She is a Boston lady, and is highly esteemed by the professors of the Philadelphia College. She has acted as an assistant, and for a short time was in business on her own account, but, her health failing, she abandoned it, and assumes charge of the model pharmacy as a pleasant recreation.

Of 36 colleges of pharmacy in the United States 21 graduate women, and the number who had graduated up to May 1 was 80. The distribution of these may be judged from the following figures, collected by the Women's Committee of the Fair, which show the numbers of graduates from the colleges or universities at the respective places :—

Albany	2	Kansas	4
Buffalo	7	Massachusetts	1
California	2	Michigan	17
Chicago	8	National	1
Cincinnati	8	New York	13
Harvard	1	Philadelphia	10
Illinois	2	Scio	1

Thirty portraits are shown in the Women's Building, and attached to each is a brief biography of the original. We ought to say that they are all exceedingly good-looking ladies, which may account for the fact that many of them have left the trade. Nine are in business for themselves, and the majority are dispensers in hospitals or act as clerks. Besides graduates of pharmacy there are many women-druggists who have been examined and registered by Boards of Pharmacy.

Women-doctors.

Our representative also had an interview with Dr. Emma C. Geisse, homœopathic resident physician of the women's hospital. She took him all over the hospital, which is lighted and heated by electricity, and is in every respect splendidly appointed. There are also a regular practitioner, Dr. Mixer, and an eclectic doctor. Patients can choose the school of treatment they desire. Dr. Geisse mentioned that there are 316 women-doctors in Illinois, of whom 208 are in Chicago alone. Many others have excellent practices, and as years go on old prejudice against them is breaking down. Indeed, it is not uncommon for paterfamilias to invoke the aid of the family physician on his own behalf when she calls to attend the mother or children. Obstetric practice and attendance on children are, however, the main support of women-doctors in America. The object of the women's hospital is to show that women can run such an institution successfully, but collaterally they bring under notice the training of nurses, and in that connection selected nurses from all the hospitals in the State attend the hospital six weeks at a time while the Exhibition is open, so that every training-school will be represented.

EXHIBITS IN MANUFACTURES BUILDING.

The American wholesale drug-trade differs from the English, there being a much stronger line of demarcation between those who are manufacturers and those who are jobbers or wholesale druggists. It is amongst the latter class that we find most of the oldest houses in the States—firms who have existed for nearly a century or more. Even amongst them we can discern a division. For example, such firms as Dodge & Olcott, of New York, who only handle crude drugs, essential oils, and the like, and do not manufacture or stock galenical preparations—these are the "Horners" of the trade. Then there is another division. We may take Meyer Brothers, of St. Louis, as an example—firms who make no pretence to manufacture, but who carry every conceivable requisite wanted by the retail druggist. Firms of that character cover an immense area of trading ground, and their business premises attain proportions that would seem incredible to those who have not seen them. Thus, Meyer Brothers have two immense blocks, together covering an area as large as the Home Office, and each of five floors. The ground floor of the front building is used solely as a counting-house, and there one can see eighty-five clerks at work in departmental sections. The business is such that the telegraph company have placed an operator in the office for the benefit of the firm. These facts sufficiently indicate the extent of the business : it is in druggists' supplies of every kind—oils, paints, liquors, sundries, &c. The Moffit-Swift Drug Company, also of St. Louis, is another good example of the same kind of business—not quite so large; but, then, the firm was only founded four years ago, rising from the abandoned business of the Richardson Drug Company, and it is questionable if pharmaceutical history affords an example of growth so rapid as the business of this young house has been. The firm require seventy clerks to do their office-work.

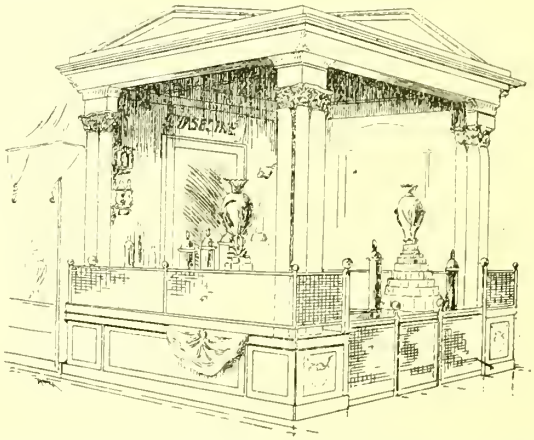
Connecting such houses as these—the wholesale druggists, as they are called—are a few important firms, of which McKesson & Robbins are a good type, who more closely resemble the English wholesale druggist. They retain their old business in crude drugs and chemicals, but have added thereto special manufacturing departments, in order to keep pace with the progress of the day.

Next comes the most notable section, composed of manufacturing pharmacists, typical of whom are Warner and Wyeth, of Philadelphia; Sharp & Dohme, of Baltimore; and Parke, Davis & Co., and Stearns, of Detroit. Their sole business in most cases is the manufacture of galenical preparations, one or more branches being specially cultivated.

It is obvious that it is the last class which can exhibit their wares to advantage, and at the World's Fair the pharmaceutic exhibits are largely composed of representations of such firms. The exhibits are displayed on the ground floor of the building and also in the gallery. It may be said of them, as a whole, that the cabinet-maker and upholsterer are as much in evidence as the pharmacist, and few of the exhibitors attempt to excuse themselves for that. Bottles of pills, tablets, and liquids are always just that and nothing more, and those who want to make a distinctive exhibit must rely upon decorative effect or else exhibit on a colossal scale. The former is certainly more pleasing to the eye. We pick from our representative's notes for publication to-day some typical exhibits, and hope to deal with the whole department in a comparative and systematic manner later on.

The Chesebrough Manufacturing Company.

On the ground floor there is an exceptionally handsome pavilion devoted to this company's vaseline manufactures. The pavilion is made of old mahogany, the canopied roof



being supported on triplet pillars with Corinthian capitals. The screen on three sides of the pavilion is made of woven bands of copper. The effect with drapery, bevelled mirror as a background, and pyramids of vaseline and its compounds, is quite charming. Apart from the artistic effect of the display, the aim of the exhibitors has been to show the applications of vaseline in medicine and the arts. It is astonishing to what uses vaseline is now put. For example, it is largely employed in tobacco-manufacture, replacing fixed oils, which become rancid; the beautiful lustre on rice is the effect of a very fine coating of the purified petroleum-jelly; straw-plaiters use it to give a shine to their work; and confectioners employ it in various ways, even for combining

with the sweets. In pharmaceuticals, we noticed several specimens which appear to be novel, the latest being an excellent vascline soap beautifully milled, of terra-cotta tint and nicely perfumed. This is a good-sized cake—about five to the pound—and it sells in U.S.A. at 5 cents. A vaseline cosmetique in metal cases shows a knacky way of pulling out the stick. Inserted under the stick is a double loop of silk cord, the ends of which are secured to a sliding-band on the outside of the case. On pushing down this band the cosmetique comes up, and remains until it is used, when it is pushed down again with the stopper. The containers for cold cream used in the States are much better than the covered pots which we use: they are very squat opal bottles with screw metal caps, and the large 75-cent jar is an elegant silvered vase suitable for the toilet-table. Besides toilet-preparations, the exhibit contains a selection of pharmacopœial ointments to illustrate the fact that no reduction takes place in mercurial preparations. There is no other exhibit in the American section exactly of this character.

THE CHEMICAL EXHIBITS

may be briefly referred to here, as they are nearly all grouped round the spot occupied by the Chesebrough Company.

The Roessler and Hasslacher Chemical Company, of New York, have the largest display of general chemicals in the section. It stands at the north corner of the Columbian Avenue, occupying a space of about 500 square feet. The case is a handsome structure, standing upon an artistic base covered with beautiful tiles coloured and glazed with the company's chemicals. Each corner is surmounted by an eagle. The contents of the case illustrate the company's own manufactures, which include acetone, chloroform, cyanide and prussiate of potash, the noble metals and their salts, fluxes, enamels, &c. The firm are also agents for the Auerbach Quinine-factory, the Aluminium Company (Limited), of Oldbury, the Griesheim Chemical-works, of Frankfurt, and other German concerns, and show specimens of their products, including the cinchona alkaloids, chloral hydrate, acetanilide, aniline products, chrome compounds, &c. The exhibit is altogether as varied and instructive in character as any in the American section.

J. J. Allen's Sons, Philadelphia, the American manufacturers of phosphorus, show five large jars containing imitations, we presume, of sticks of phosphorus.

Rosengarten & Sons, of Philadelphia, occupy a place in the States similar to what the Howards do in England, if we may judge from the goods which they show. These comprise all kinds of medicinal chemicals, especially ammonia and alkali salts, bromides, iodine and iodides, hypophosphites, and benzoates; also vegetable principles, such as tannin, quinine salts, morphine and codeine, and their salts. As far as can be judged from appearance, the specimens are excellent, and they are displayed with good effect.

Krembs & Co., of Chicago, have an exhibit similar in character to the foregoing—*i.e.*, it includes acids, ethers, collodions, and some metallic salts—but it goes beyond them in showing chemical syrups (FeI_2, $Fe_3P_2O_8$, &c.), mercurial ointments, and lead plaster. In addition to these there is at the base of the case a small collection of crucibles, muffle, and other chemical apparatus, to show how photographic-paper waste is won back again to silver nitrate.

The Ammonia Company, of Philadelphia (H. Bower & Son), have an open exhibit consisting of ferrocyanide of potash and alkali chromates in large crystals, some ammonia salts, and two pillars of ferrocyanide. These stand upon a blue cloth pedestal, but they are not labelled, and the non-chemical visitors wonder what the imposing array means.

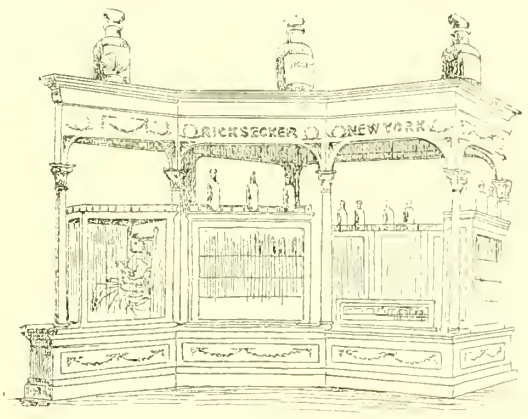
The Pennsylvania Salt-manufacturing Company show the products obtained from Rio Tinto pyrites and from cryolite, the specimens making an instructive exhibit but not one of first-rate importance. The principal item is Lewis's 98-per-cent. lye—"lye" being the Americanism for powdered soda-ash apparently. This powder is recommended for various household purposes, such as making soap, softening water, and, generally, as a detergent.

Powers & Weightman, also of the Quaker city, make an excellent display of pharmaceutical chemicals, including alkaloids from cinchona and opium, and tannic acid. These are exhibited in 20-lb. vases, and they have a rich and finished appearance. This firm is one of the three in the States who manufacture cinchona alkaloids on a large scale, and the same applies to morphine. The samples of those which are shown, especially of the last-named, have a good appearance, but the visitor has no means of judging otherwise than by externals.

With the exception of a glycerine exhibit the above are practically all the American chemical-manufacturers in the Exhibition. We have grouped them together so that the full strength of the show might be seen, and that, it now appears, is not extraordinary. But the fact is the United States is not a chemical-producing country, and, in spite of the utmost encouragement by means of heavy tariffs, there is little internal progress. The astonishing thing is that the handlers of chemicals insist on paying through the nose for English, French, and German products.

PERFUMES

form one of the most attractive features in the ground-floor section, for there are in the States a considerable number of firms whose sole business is the compounding of scents and toilet-preparations, and on this occasion several of them come out in splendid style. A prominent and most artistic exhibit is that of Theo. Ricksecker, of Maiden Lane, New York, which occupies a corner of the aisle as we approach from the north entrance. Here there is a series of eight cases decorated in green enamel and gold, forming a kind of wedge. The apical case contains a figure of the woman most revered by all Americans—Martha Washington,

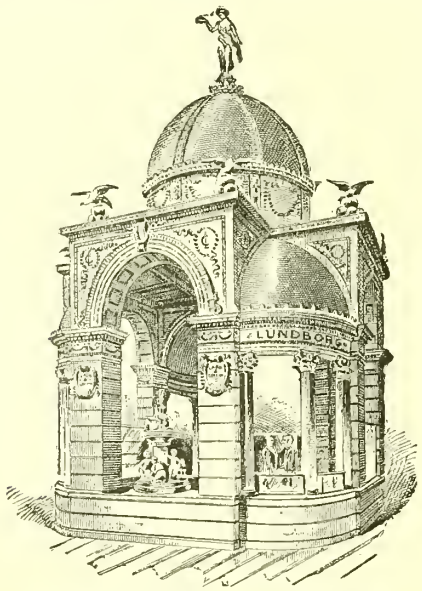


the mother of the Republic. This figure is modelled in wax, and is, we believe, a true likeness. Martha Washington was a charming and lovely woman, and Mr. Ricksecker has not failed to do her beauty justice, for the dressing of the figure is as tasteful and elegant a costume as would serve for a royal wedding. This unique feature naturally attracts attention to the exhibit, and once the visitor begins to inspect it he finds many things to interest him. There is a charm about the Ricksecker perfumes which is unusual: they are elegantly put up, both the shapes of bottles and the style of labels being quite *sui generis*. This is particularly noticeable in such perfumes as lavender-Cologne, sweet clover, and many others which might be named. The perfumes are displayed in magnificent vases and flasks as well as in the usual bottles for retailing, and they are set off by a selection of solid perfumes (sachets, &c.), which are also of elegant get-up. In connection with these perfumes we may mention that the syndicate having the exclusive sale of perfumery at the Fair selected them as the only kind to be sold there, and the company which purchased the concession for selling perfumery through machines use them only in the 200 machines on the World's Fair grounds. Besides perfumes the exhibit contains a good selection of toilet-preparations, such as tooth-powders, face-powders, reviving-salts, and soaps. There is a 165-lb. block of Ricksecker skin-soap on show which looks just like marble, and which, we noticed, was always dry whatever the state of the weather might be. This is a distinct innovation in toilet-soaps, for it eschews all the characteristics which are generally taken to imply attractiveness. For instance, it is not brightly coloured, nor is it scented—the oleaceous base

is purely vegetable and in saponification the amount of alkali is rigidly hit off, and by subsequent treatment the soap is brought to a condition of strict neutrality. In appearance the soap looks well, for it is milled five times, so that it comes out almost cream in colour, and the odour is not unpleasant. It gives a smooth but not abundant lather which can lie upon the skin for a long time without producing irritation, and its detergent qualities are excellent. It will be noticed from the sketch that Mr. Ricksecker's exhibit is surmounted by three gigantic bottles of perfume, and we ought to add that the cases are so arranged as to form an office within which the attendant can receive visitors, who also have the privilege of writing letters in the office.

The Lundborg Pavilion is the next exhibit which attracts attention. This is the exhibition headquarters of Ladd & Coffin, New York. The pavilion occupies a space of 400 square feet, and from the engraving which we give of it it will be seen that the design is strictly classic. The decoration is in cream and gold, with salmon-colour panelling and relief. The interior is as elegantly finished, a fine oak floor being loosely covered with a Wilton carpet of that subdued character which "tony" people are fond of just now. Practically all the business show is in the interior, in the pillared recesses, where cases elegantly lined with gauzy silk show off Goya lily and other favourite Lundborg perfumes. But there stands also the famous silver fountain which was at the Paris Exhibition — indeed, has been all over the world—and is now perfuming the handkerchiefs of some 10,000 persons weekly—10,240 was the record one week, and "Edenia" was their odour when they left the pavilion. The exhibit as it stands cost £10,000, and when we add incidental expenses and attendance it will amount to a pretty expensive advertisement at the end. But the average American business man likes that, and our representative was assured that visitors gave orders, "because," said they, "people who advertise like this are worth supporting." [A sentiment which can be appropriately acted upon in connection with this Summer Issue.—Ed.]





Lazell, Dalley & Co., New York, have an exhibit in the same line, but differing entirely in style from the foregoing. The effect here is due to colour and light, and cannot be reproduced by the pencil. The exhibit is a glass case in three sections, the centre one the largest. This contains magnificent glass bottles from 1½ foot to 2½ feet high, filled with perfumes, varying, of course, in colour from water-white to bluish green (essence of violet). Below each of these bottles is an electric glow-lamp with reflector, which sends the light up through the liquid, and as the rays are scattered by the cut-glass surfaces the effect produced is of fascinating beauty, especially in the dusk. We then see the result of different refractive power in the liquids and consequent variety of colour. The dark green velvet carpet in the cases rather heightened the brilliance of the effect. The other sections contain a display of handkerchief-perfumes as put up for retail, and another of toilet-waters, sachets, and face-powders.

Joseph Burnett & Co., of Boston, are the only other firm of perfumers who exhibit on a scale comparable with these, but there are also good exhibits by B. D. Baldwin, of Chicago, G. Lorenz, of Toledo, The Zehring Company, Chicago, and A. P. Preston, Portsmouth, New Hampshire.

GALENICAL PRODUCTS.

Leaving the essential-oil department for the present, we ascend to the Liberal Arts Gallery, where all the firms who come within the group of manufacturing pharmacists are placed. Amongst the first that we meet here is the pyramidal monument of sugar-coated pills erected by Wm. R. Warner & Co., of Philadelphia. The base of the pyramid is 20 feet by 20 feet, and it rises to a height of 16 feet, the steps which form the shelves being covered with black velvet trimmed with gold beading, the whole being surmounted by a gilt statue of Mercury, as shown in the illustration. Within the railing are seating accommodation for visitors and a door leading to the interior for storage. The stand is simple, conspicuous, and imposing, without any attempt at a cabinet-maker's display or of beautiful cut bottles. The bottles containing the various products are of the Warner pattern, moulded with a base similar in appearance to goblets. This collection comprises sugar-coated and gelatine-coated pills; flat, oval, white, blue, pink, and yellow compressed tablets; fluid extracts; elixirs; effervescent salts, including bromo-soda. Several specimens of medicine-chests fitted with pills and tablets are also shown; and amongst the curiosities is a bottle of the Warner pills twenty-seven years old. These are not like marbles by any means, for they can be squeezed flat between the finger and thumb.

Looking along the aisle from this standpoint, we get a succession of representations by well-known houses represented. First we pass a very handsome pavilion built of oak with brass mountings wherein Reed & Carnick exhibit Carnick preparations, such as kumysogen, pancrobilin, and other medicinal preparations, which we described a year ago.

Next in order comes one of the most artistic and striking exhibits in the gallery—shaded by a magnificent Japanese umbrella—and which represents the manufactures of Fredk. Stearns & Co., of Detroit. This contains a group of ten cases, each one being devoted to a special department of manufactures. The central case is hexagonal, and those round the edge of the space have been made to fit the

respective positions. In some instances special show-bottles are used, but as a large part of the display is made up of the firm's non-secret medicines, these are exhibited as they are put up for retail. They cover practically every branch of business, and it would be impossible to refer even to a selection of them; but there are two which cannot be passed over. One of these is the wine of cod-liver oil and peptonate of iron. This contains the active principles of cod-liver oil, the amount incorporated being equivalent to 25 per cent. of the volume of the wine, and each ounce contains in addition 4 grains of peptonate of iron. Stearns' "Cascara Aromatic" is another preparation which is worthy of notice as being one which has pushed its way to the front until now the factory output daily is 1,024 lbs. Apart from these specialities the exhibit contains a full representation of all departments of galenicals—compressed tablets (600 kinds being represented), granular preparations, gelatine-coated pills without pin-point (for they are coated in the same way as sugar-coated pills are), elixirs, fluid extracts, ointments, and a fine selection of digestive products surmounted by a globe of Dike's scale pepsin. To these we may add perfumes, a department which the firm consistently cultivate, and which is represented by a full line of their manufactures—goods which are put up with great neatness—and by an unusual-size flask of otto of roses—viz., one of 5 kilos., or $11\frac{1}{6}$ lbs. It is the largest flask of otto that has been imported into the States, and cost £3,000. It represents the product of 50,026 lbs. of roses. The tops of the cases are filled up with vases of rare drugs, and the umbrella which shades the whole is one brought from Japan by Mr. Stearns, senior.

The G. F. HARVEY COMPANY are the next in the row. The company are makers of pills and tablet triturates, and these they show in wonderful profusion under the shade of the pink canopy of their stand.

"It is a stock-exhibit, doctor," said the attendant to our representative (certificated pharmacists are "doctors" out there, it seems). "Here we hope to see many friends and to make them welcome. We are the oldest house in the country to supply medical men with such goods. We were the first to call upon them: we introduced that system in the States."

"Indeed. And you do not hesitate to tell it; that's courageous. But what do you mean by 'oldest'?"

"We have been in business over ten years."

"Then the system of supplying American doctors with drugs is only so old?"

"Yes. We showed them how they could do their own dispensing with a few triturates or pills, you know. They get a better fee, and it's little trouble."

This frank confession was surprising, but so fresh and honest that it is worth preserving.

JOHN WYETH & BROTHER, Philadelphia, have the next and a large space, upon which they have placed one principal showcase with a hexagonal one at the side, thus forming an enclosure within which there is office-accommodation for attendants and visitors. The front case, 18 feet long, is used for the display of elixirs, fluid extracts, and other liquid preparations, which are shown in bottle-vases of cylindrical shape, while vases for compressed pills are wedge or elliptical, and the effect produced is both attractive and pretty. Comparatively few new preparations are shown, the firm having aimed to illustrate the present output of their factory, but there is an elixir of codeine-sulphate which appears to be decidedly original in composition and flavour. The same may be said of all the elixirs, and when one sees the therapeutic ground covered by a full list of these elixirs and notes their elegance in appearance, flavour, and taste, it seems surprising that as yet they have taken a comparatively minor position in English medicine. Of course, American medicine shows backwardness in some respects. For example, our representative's attention was called to several preparations of Australian red gum as being something quite new. "New?" "Yes," was the reply; "we are the first to place them on the American market." This of a medicine which we have been dispensing for more than a decade. It is well known that Wyeth's compressed goods were the first to be sold in England. They are still amongst the leaders in the States, and their factory in Philadelphia is one of the largest pharmaceutical establishments in the world. Everything that they put on the market is produced there, and they employ several hundred hands in actual productive-work, while the office is a perfect beehive of typewriters and bookkeepers.

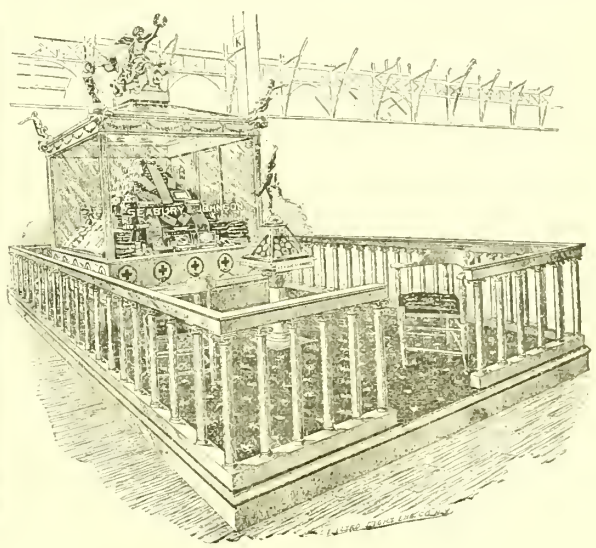
THE UPJOHN PILL COMPANY, of Kalamazoo, Mich., for whom Johnson & Johnson act as agents in this country, have an exhibit of their friable pills in this gallery which is in some respects remarkable. In the first place, the construction of their case is striking, being a large casket made of plate glass, with hollow pillars of glass, each of which is filled with pills—some white, some pink, some small, some large. The casket itself has a cargo the like of which has not, we suppose, been seen before, for it represents 16,000 oz. of sulphate of quinine in 2-grain pills. This figures out to 3,500,000 pills! It is only in the United States that such an exhibit is possible, as there "kwy-nine" is one of the commonest medicines, and it is generally taken in pill form. Apart from this multitude of snow-white spherules, the case contains a large variety of the company's pill-manufactures, shown in handsome globular vases. These have been selected, apparently, as much to show the adaptability of the friable process to all kinds of pill-ingredients as to exhibit the beauty and smoothness of the coating.

There are several other exhibits in this part of the gallery which we shall return to later. It may be called the pill and tablet section, and one gets a surfeit of this line of goods before leaving the gallery.

PLASTERS.

The manufacture of rubber plasters is represented in the Exhibition by examples of the products, which are placed in association with surgical exhibits in the Liberal Arts Gallery.

SEABURY & JOHNSON have simply placed themselves in evidence here by exhibiting a sample of each of their most important products, and displaying them as compactly and artistically as possible, thus leaving much of their space for the use of visitors. The illustration shows the exhibit,



surrounded by classic railings coloured in cream and gold. The first object which attracts attention is a pyramid showcase on a Corinthian pillar, containing forty-nine of the original gold, silver, and bronze medals awarded to the firm. The case containing the exhibit of products stands behind. It is about 8 feet square and is 11 feet to the summit, where it is capped by a beautiful group representing Fame. This was specially modelled by George J. Zolnay, a graduate of the Fine Art Academy, Vienna. Poised on each of the four corners of the case are statuettes of Mercury (the firm's trade-mark), also modelled by Zolnay. The case, like the railing, is decorated in cream enamel, with festoon wreaths of Empire design and relieved

with gold. The walls of the space are draped with a soft silk fabric in old red, upon which are displayed photographs of the Seabury Laboratories, in East Orange, N.J. It will thus be seen that the exhibit is one of exceptional artistic merit, and it serves admirably for the display of the specimens. One side of the case is devoted to spread plasters, another to absorbent cottons, gauzes, &c., another to court plasters and surgical plasters in isinglass combination, the other containing splints, ligatures, bandages, medicated soaps, sulphur candles, &c. All these goods are so well known to the English and colonial trade that no attempt need be made here to describe them. In some respects, the most attractive feature of the exhibit is the series of platinotype photographs showing the exterior and interior of the East Orange Laboratories. They are the next best thing to a visit to the laboratories for conveying an idea of the gigantic scale upon which Seabury & Johnson work. Our representative has visited the laboratories, and we hope at some future time to give his impressions of them; but meanwhile it may be stated that apart from the plaster department, which entails the services of several hundred employés, the firm have complete plant for treating raw cotton through all stages until it emerges as refined absorbent cotton. This also employs a large number of hands—in fact, the laboratories contain a complete cotton-carding factory. Alongside this are factories for the production of lint and for weaving patent cotton-elastic bandages; there is a complete printing establishment, with a dozen printing-machines; a pharmaceutical laboratory with vacuum apparatus for the evaporation of extracts. A floor of the works is devoted to box-making, for which there are several ingenious machines; and there is, of course, another line of industry in the surgical-dressings department, and a separate building for the manufacture of oiled silk. The essence of all this is concentrated in the exhibit which we have referred to.

Johnson & Johnson, whose factory is situated at New Brunswick, N.J., occupy over 500 square feet of space in the Liberal Arts Gallery. Here they have placed five black-and-gold cases, each one being devoted to a special section of their products. The two largest are placed at right-angles, thus facing the two aisles of the gallery. One is filled completely with rubber plasters and all kinds of plaster goods as they are put up for the retailer. A case of equal size is devoted to antiseptic surgical dressings and simple dressings, such as lintine and absorbent cotton. In a third case there is a model of the isolated factory in which surgical dressings are prepared. This shows everything employed in the work reproduced in facsimile, but in Lilliputian size, and the workers are as neat and trim as dolls can be. The object is to emphasise the care and cleanliness requisite in the manufacture of surgical dressings. A very large photograph of the New Brunswick factory covers one side of the model. In another case we have one of the very few illustrative exhibits in the Fair. If there is anything in which the pharmaceutical side of the Exposition is deficient, it is in practical illustration of pharmaceutical processes. Paris was fairly strong in that respect, the Palace of Machines containing machines at work in producing perles, lozenges, pills, and the like. But there is nothing of that kind in Chicago, and little attempt to show, even by specimens the sequence of any manufacturing process. Johnson & Johnson do what they can by showing how catgut ligatures and drainage-tubes are prepared and sterilised. In the former case the catgut, as it comes into the market, is wound on glass spools, and these are packed in a percolator. Then, in successive stages, blood, fat, and other foreign matters are extracted by alcohol, benzol, ether, and aqueous menstrua. After all the objectionable matters are removed, the spools are placed in a current of steam, which completely sterilises the gut, and this is followed by antiseptic vapours. The preparation of emp. belladonnæ is illustrated by a collection of the materials used in making a square yard of the plaster. These are:—Indiarubber, $\frac{3}{4}$ lb.; olive oil, 4 oz.; olibanum, 3 oz.; belladonna-root, 1 lb. With these is given a brief description of the processes through which all the materials go before they come out as belladonna plaster. The exhibit is altogether one of great interest, is well arranged, and proves to be attractive.

There is one other exhibit of rubber plasters, but it is in a collection of surgical instruments, and we shall refer to it in its order.

Drugs and Diseases:

Being a continuation of the Treatise in The Chemists' and Druggists' Diary, 1893.

ANÆMIA.

Young people in sound health enjoy life as no others do. Youth is the time for indulgence in healthy outdoor sports and amusements. It is the season for the display of a vigorous appetite to meet the requirements of a growing and expanding system. When the girl develops into womanhood, or the boy takes on the functions of a man, the system is greatly taxed. The muscles want plenty of play in the open air, and the appetite requires to be satisfied with a liberal supply of wholesome food. Modern styles of living—rich foods, heavy clothing, want of exercise, and neglect of elementary laws of health—are not conducive to the due development of the frame or to richness of blood. The blood becomes poor and watery, bereft of red corpuscles, lacking iron. This is called anæmia, and, if complicated with perverted uterine functions, chloro-anæmia or chlorosis. The skin is pale and clear, with sometimes a greenish tint, the lips and eyes are blanched, shortness of breath occurs on slight exertion, headache, backache, giddiness, even fainting, and great lassitude, are its common symptoms.

Treatment.

Aperients.—According to Sir Andrew Clark, the most potent cause of anæmia is constipation. Fæcal poisons are absorbed from the bowels, and enter the blood, destroying the red blood-corpuscles. An aperient iron mixture, such as is a stock mixture of most hospitals under the name of mist. ferri salina, is excellent. Thus:—

Ferri sulph.	gr. xvj.
Magnes. sulph.	℥iv.
Acid. sulphuric. dil.	℥j.
Aq menth. pip. ad	℥viij.

℥j. t.d.s.

Food not to be too nourishing; such as forms bulk rather than concentrated nutriment—a full vegetarian diet, with a fair supply of meat. This forms substance, and so enables the bowels to act regularly.

Brisk Exercise, such as well fills the lungs with air, and so fully oxygenates the blood, is imperatively necessary.

Dress should not be too heavy or tight-fitting. Tight-lacing must be strictly forbidden, and skirts fastened so that weight is borne by the shoulders, and not by the waist.

Iron forms an essential constituent of the blood, and, when given in anæmia, almost invariably cures. It must be continued for a length of time. The aperient mixture mentioned above is one of the best forms of giving it. Blaud's pills gr. x. t.d.s., continued for a month regularly; dialysed iron ♏v. to ♏xv. in water; tinct. ferri perchlor. ♏x.; pil. ferri c. myrrh. or pil. aloes et ferri—may be administered to suit individual requirements. When the tinct. ferri perchlor. is given in sweetened milk it does not affect the teeth.

Manganese, in the form of potassium permanganate, or the syrup of phosphates of iron and manganese, ℥j. t.d.s., increases the curative action of iron.

Potassium Iodide gr. v. t.d.s. or sulphuric-acid lemonade are good remedies in anæmia due to lead-poisoning.

Arsenic is of great value. It can be combined with iron in mixture form, or may be given as a pill, gr. $\frac{1}{100}$ arsenious acid with gr. ij. ferr. redact. t.d.s., or may be given independently in doses of ♏ij. to ♏v. before food. Arsenic is also the best known remedy for the peculiar and rare form of fatal anæmia called pernicious.

Oxygen.—The gas inhaled, or oxygen-water taken as a beverage, increase aëration of the blood, and so help to remove anæmia.

Mineral Acids, as tonics, combined with vegetable bitters, especially tr. nucis vomicæ, or the vegetable acids of fresh fruits, improve the quality of the blood.

Alkalies, such as potash bicarb. or soda bicarb., combined with bitter infusions, are invaluable when great debility associated with uterine disorder is present.

ANGINA PECTORIS.

It is a terrible experience to be shut in a dark room with an unseen enemy. The darkness gives no indication of the mode of attack. An aged person seized with suffocative breast-pang has this kind of feeling. There is a mysterious something within his chest, and he knows that death is near. The attack is sudden, with severe pain which prevents freedom of breathing. The pain is grasping, crushing, stabbing—an awful pain. With it is a distressing feeling of sinking, of faintness, of impending dissolution. Angina pectoris is mostly a nervous disorder. There are nerves which regulate the functions of the heart and blood-vessels, which are also in touch with the lungs, liver, stomach, and kidneys. The heart is generally fat-diseased, and the small coronary arteries which supply the heart are rigid and bony. A slight perturbation or upset of the nervous machinery throws out of gear the heart's mechanism, and a paroxysm of angina results.

Treatment.

Quiet Living is essential. A sufferer from angina should rigorously avoid excitement, hurry, or worry, and his food should be as light and as well cooked as possible, so as to avoid the danger of overloading or distending the stomach.

Empl. Belladonnæ worn over the region of the heart is much appreciated by some sufferers.

Potassium Bromide gr. xx. combined with ♏ v. succ. bellad. in water ℥j. will quiet the heart's action and often prevent or mitigate threatened attacks.

Nitrite of Amyl inhaled, or trinitrine tabloids taken, are acknowledged to be the best palliatives for this disease during a paroxysm.

GOUT.

When a person has the gout, or knows that his father or grandfather suffered, he may take it for granted that he comes of an able, of a vigorous, of a conquering race. In many cases it is hereditary, but not always. Often it skips a generation.

It is generally associated with beer-drinking or with the use of strong saccharine wines, combined with a highly nitrogenised diet and lack of exercise. It is a disease of the highly-civilised, of Englishmen. When it occurs in women it is chiefly among those who are robust and hearty looking, and inclined to masculine pursuits.

Gout comes on usually in the early morning. It attacks mostly the ball of the great toe, then it extends to other joints. The complaint gets more severe as age advances. A paroxysm is known to be brewing by the presence of deranged digestion, irritability of temper, and a feeling of impending topsy-turviness. The pain is peculiar. It is likened to a feeling of a dog gnawing at the bones. Public men are very liable to it.

Treatment.

Hygiene.—A life of indolence is prejudicial, and one of activity and usefulness should be substituted. Regular systematic exercise is an excellent preventive—walking or out-of-door sports. Severe or exhausting extremes of labour, are prejudicial. In very inveterate cases removal to a warm dry climate during the winter is desirable.

Promotion of Skin-action.—To relieve the other excretory organs, friction of the surface and judicious bathing should be resorted to, and Turkish baths may help in this way taken regularly once a fortnight.

A Non-nitrogenous Diet.—The active cause of gout is the presence of uric acid in excess, and this is derived from animal food. Therefore meat (especially salmon, veal, pork, or highly-seasoned dishes) should be eaten sparingly. Pastry, greasy or twice-cooked food, and sugar, which are liable to create acidity, should be avoided.

Alcohol.—It is generally asserted that while too much animal food is the active cause of gout, rich saccharine wines, such as port, sherry, champagne, or Madeira, determine the attack. Alcohol in any shape is conducive to gout, but the least harmful are light wines and beer in strict moderation, and taken only with meals.

Hot Poppy Fomentations. The best local treatment of a joint acutely inflamed with gout is to wrap up the part in flannels wrung out of a hot solution of extract. papaveris ℥ij. to Oiij. Hot soda-and-water has also been well spoken of as a fomenting agent. Cold applications are dangerous and may drive the uric-acid poison to internal parts. An excellent lotion to apply is made by mixing equal parts of vin. colchici, glycerine, and liq. opii sed., or glycerine of belladonna, rubbed on thickly. Benzoline on flannel is also said to cure rapidly the pain and swelling.

Potassium Iodide.—With a view of eliminating uric acid drugs in which it is known to be soluble should be administered. The lithium salts are stated to be best for this purpose, but experience demonstrates that potassium salts are the most curative in actual practice. Potass. iodidi gr. v. every four hours is a remedy of uniform efficacy. It may be combined with colchicum and other drugs. The following is a good recipe:—

Potass. iodidi	℥ss.
Sodii salicylat.	℥j.
Tinct. guaiaci	℥ij.
Tinct. card. co.	℥ij.
Tinct. digitalis	♏xx.
Glycerini	℥vj.
Aquæ ad	℥vj.

℥j. t.d.s.

If preferred the iodide of lithium may be substituted for the potassium salt and given in the same doses—viz., gr. v.

Colchicum is a remedy which has almost a specific action on gout. It should never be given alone, as cases so treated do not progress well, the disease being liable to return quickly. When combined with saline aperients—such as mag. sulph.—or with pot. iodide it increases their action greatly. Colchicum combined in this manner may be given in doses of ♏x. to ♏xxx. of the wine every six hours.

Salicin and Benzoates are useful. Benzoate of lithia gr. xx. with salicin ℥ss. is a good combination.

Antipyrin.—In doses of gr. x. or more this remedy is valuable to allay the acute pain of gout. Antipyrin is a valuable drug to allay headaches or other symptoms of uric-acid origin.

Hot-water Drinking.—On the principle of flushing the system and thereby diluting, dissolving, and promoting the elimination of uric acid, copious drinks of water, hot water, or potash-water are decidedly useful. The best beverage of all, however, is oxygenated water, the oxygen gas having a direct influence in burning up uric acid.

Mineral Health-resorts.—Many sufferers are in the habit of frequenting various spas with the view of getting well. The exercise, spare diet, and change of scene have a beneficial effect. The brine-baths of Droitwich are useful. This treatment, if desired, can be practised at home by dissolving 20 to 30 lbs. of salt in 30 gallons of water at a temperature of 100° Fahrenheit. A glassful of Woodhall Spa water every day, fasting, for a week or more, is also said to have a curative action.

Mineral Acids.—Nitromuriatic acid, ♏x. or more, has a direct dissolving action on uric acid. It may be combined with nux vomica or quinine as a tonic in cases of atonic gout due to impaired health.

Galvanism.—After the acute stages have subsided the constant current, with sponges moistened with a suitable alkali, is a useful form of treatment.

HAIR (CARE OF)—BALDNESS.

Hair requires to be cut regularly. It needs fertilising—perhaps with its natural fat, lanoline—when falling out. It ought to be

kept uncovered and exposed to air and light. Constant wearing of modern hats is a fertile source of baldness.

The hair is an appendage of the skin and participates in skin-changes. There are means of telling from the appearance of persons' skins or hair whether they are healthy or ill. Poorness of blood, fast living, fevers, blood-poisons, and other troubles always have a prejudicial effect on the skin-structures, and so the hair comes out perhaps a little, sometimes entirely.

Hair can be made to grow just as a wound by healing applications can be made sound. If the roots are there they want stimulating to force the growth. A suitable lotion is of the greatest service and ought to be used freely.

Unnatural falling of the hair where caused by fevers, syphilis, neuralgia, dandruff, is generally amenable to treatment. When a person is naturally disposed to baldness all remedies must be used with a great deal of faith, and seldom do any marked good.

Treatment.

Washing.—Occasional cleansing of the scalp is beneficial the pores are kept open and the roots are made healthy. A good wash for the hair is camphor ℥ss. and borax ʒj. in a quart of boiling water. To be applied with a sponge, and the hair brushed well afterwards.

Too frequent washing of the hair is prejudicial, with hot water and soap especially so. It removes the natural grease or gloss so strikingly seen in the sleek coat of a well-kept horse. Dandruff, or the fœtid *débris* of the scalp, should be got rid of by appropriate treatment. It rots the hair and causes eruptions.

Rough treatment and want of cultivation in childhood have to answer for the loss of many beautiful tresses so crowning of glory of womanhood.

Fats.—In the form of pomade or cocoa-nut oil, fatty substances supply nutriment to the hair-roots and are beneficial if used with great moderation. A useful recipe for dryness of scalp and to promote growth of hair is :—

Ol. olivæ	℥ss.
Aq. ammon.	℥j.
Ol. macis	℥ss.
Spt. rosemar.	ʒj.
Aq. rosæ	ʒiiss.

Paraffin.—A remedy of undoubted efficacy is paraffin oil. The chief objection to it is its smell. Pure petroleum oils can be used with confidence and with great advantage.

Chloral Hydrate.—When the hair falls out in consequence of dandruff a choral-hydrate lotion 1 to 20 is a good local application applied by means of a sponge every morning.

Cantharides.—When the hair-roots require stimulating, cantharides, in the form of the tincture, is an excellent application. It may be used in conjunction with rosemary and quinine. It is questionable, however, if cantharides does much good if used short of the irritation stage. Certainly, if any preparation is applied which produces decided itching and faint vesication, benefit follows. Squire's *linimentum crinale* does this. The formula is :—

Cantharidin.	gr. j.
Æther. acetic.	ʒvj.
Dissolve and add —	
Spt. rectificat.	ʒiij.
Ol. ricini	ʒj.
Ol. lavand.	℥xv.

Sulphur.—The hair itself is rich in sulphur, and on the principle of supplying an important ingredient, this element is useful. It is chiefly indicated when the hair changes colour prematurely. The remedy may be applied as a sulphur lotion or as ung. sulphuris at bedtime.

Ung. Hydrarg. Oleat.—When local bald batches present themselves the so-called alopecia areata, the remedy which has the best effect is the 20-per-cent. ointment of the oleate of mercury. This must be continued for at least several months. If it loses its effect the ung. hydrarg. oxidi rubri can be substituted and combined with judicious galvanism to stimulate the atrophied hair-roots.

SKIN (CARE OF).

A conscientious groom will not remain content till he has properly dressed and curried the coat of his horse. Few stop to think that their own skins require attention. A most important precept for the preservation of health is to care for the skin—to wash therefrom the dirt and excretions. If necessary ablutions are neglected the pores are half closed and unfit for use. More waste matter should be discharged through the skin than by the whole of the other excretions. If the glands are partly blocked, how can the perspiration possibly get through? The extra work of elimination must be done by the kidneys and lungs, and sometimes they are not capable of doing it. That marks the starting-point of a variety of unpleasant ailments.

Cosmetics.

Soap.—It is a popular belief in England that soap and water are good for the skin. It is quite possible that the notion has been advertised into universal favour. However this may be, the belief is based upon correct principles.

Many continental *savants* contend that soap is a bad cosmetic. They say it makes the skin coarse and pasty-looking. Their soap was evidently of the wrong kind or they did not use enough of it.

A lady wants no other cosmetics than a healthy out-of-door life, a little common sense, and a daily modicum of pure soap and water used all over her.

Soft Water.—Rain-water is better than hard water for skin-beautifying. If the water is hard, it can be made less hard by sundry ingredients. Soft water removes more effectually the dirt and excretions, and it saves soap. Cold water is prejudicial to a freely-acting skin. Very hot water is baneful when the surface is chilled. Many a wretched complexion has been produced in this way.

Healthy Life.—There is a difficulty in defining a cosmetic. Some say it is any artificial agent intended to beautify and improve the appearance—to make, as it were, the old look young again. A woman's real cosmetic is the beautiful tint that a natural and healthy life gives to her without resort to art. Happy are those who require neither medicines nor artificial cosmetics, but they are few and far between.

Art.—Since remote times a desire has obtained for sundry articles in the way of scents, powders, lotions, salves, and the like. People with bad complexions who use them feel they are doing something to the parts themselves. Those with good complexions want to retain them as long as possible. *Lac Virginal* is a celebrated cosmetic which may be given as an instance. It is made by pouring, drop by drop, an alcoholic tincture of benzoin into ordinary water, until a beautiful perfectly white liquid is formed. It is supposed to preserve the freshness of the skin, but in reality it removes the cutis and leaves a resinous stratum.

Exercise.—For cosmetic purposes exercise must be sufficiently brisk to allow of free perspiration. The skin everywhere while moist should then be rubbed dry with a cloth. This is nature's cosmetic—a wiping-off of dirt and *débris* when it has been dissolved and softened by the perspiration itself.

ST. VITUS'S DANCE.

In the fifteenth century a most remarkable epidemic occurred at Strasburg. The entire population was attacked by a peculiar nervous affection. The sufferers made pilgrimages to the shrine of St. Vitus. Faith and exercise cured them. They called it St. Vitus's dance. It a most curious disorder with its convulsive movements and ludicrous gesticulations.

Chorea (as it is sometimes termed) prefers for its victims young girls. The patient is in constant agitation; involuntary movements of voluntary muscles occur—the will cannot stop their action. For the time being the muscles are mad.

Rheumatism has some connection with it. The complaint is infectious, children being highly imitative. Frights, irritation from worms or teething, or a neurotic hysterical mother, are exciting causes.

Nature is slow in effecting a cure. If her efforts are stimulated by appropriate treatment, she will do her share to help.

TREATMENT.

Hygiene.—The patient should be encouraged to exert his will to control the involuntary movements. Firm, kind treatment will generally do wonders in these cases. Systematic galvanism or massage often aids recovery. If the sight is defective the eyes must be attended to and spectacles ordered if necessary.

Alcohol, given medicinally, is beneficial in some cases.

Potassium Bromide is one of the best remedies, given in full doses and combined with chloral or succus conii, when the movements are continued during sleep.

Liq. Arsenic. is indicated in chronic cases uncomplicated by any other disorder. It should be given in gradually increasing doses. It may be combined with iron in anæmic cases thus :—

Liq. arsenic.	ɱiss.
Tr. ferri perchlor.	ɱvj.
Glycerini	ɱx.
Aquæ ad	ʒij.

For a dose.

In other cases it gives good results combined with ergot—liq. arsenic. ɱiss., ext. ergot. liq. ɱv. to dose.

Calcium Sulphide, in doses of gr. $\frac{1}{10}$ or more, is specific in many cases, and cures when arsenic and bromides fail.

Zinc Sulphate gr. j. to gr. ij., combined with belladonna gr. $\frac{1}{8}$ in the form of pill, is invaluable in very inveterate forms.

Antipyrin, in doses of gr. v. t.d.s., is serviceable in cases complicated with fever and rheumatic pains.

Sodium Salicylate, in full doses of gr. v. to gr. xv. every four hours, is the best remedy in cases complicated with acute rheumatism.

Calcium Chloride gr. x. to gr. xx. in syrup is excellent in cases where the tonsils are enlarged or a tendency to enlargement of glands exists.

Business Changes.

MESSRS. W. & H. JACKSON, dealers in druggists' sundries, Manesty Lane, Liverpool, have removed to Cornwallis Works, Lydia Ann Street, Liverpool.

MR. JOHN W. SALT has purchased the business lately carried on by Mr. Sidney Fisher, Medical Hall, Six Ways, Birchfield, and is removing his High Street branch to that address.

MR. FRED E. JOHNSON, of the Crescent House Pharmacy, Halesworth, Suffolk, has accepted a partnership in the firm of E. & H. Allison, wholesale druggists and drysalters, of Hull, and has disposed of his Halesworth business to Mr. Walter J. Everett.

New Company.

LONDON X.L. DRUG COMPANY (LIMITED).—Capital, 1,000*l.*, in 1*l.* shares. Objects : to carry on the business of chemists, druggists, drysalters, oil and colour men, importers and manufacturers, &c. The first subscribers (who take one share each) are :—W. Crooke, 3 Winstanley Terrace, Headingley, Leeds, traveller ; W. Phillips, 10 Fishergate, Preston, draper ; A. Bingham, 13 Ashwood Villa, Headingley, traveller ; H. Crooke, 19 Windsor Road, Southport, broker ; Catherine Phillips ; Eleanor Mahon, 26 Norwood Place, Headingley, widow ; C. H. Bentley, Lythe Grove, Altrincham, salesman. Walter Crooke is the manager of the business, with a remuneration of 200*l.* per annum and 5 per cent. on the net earnings of the company. Registered office, 59 St. James' Street, Burnley, Lancashire.

Trade Notes.

MESSRS. VICTOR NATALI & CO., the head of which firm has been well known to the trade as a dealer in shop-fittings for many years, are now conducting a transfer-agency, at 2 Finsbury Square.

MESSRS. ZIMMER & CO. send us their half-yearly price-current of chemicals, &c., prepared in their factories at Frankfort-on-Maine and Stuttgart. The list also gives up-to-date particulars of a number of new remedies.

REVIVISCENT CHOCOLATE.—This is a new form of chocolate produced for the benefit of consumers to whom sugar is not a safe article of diet. It is a very pure article, sweetened, we presume, with saccharin. In buying this article the customer will have to recollect that he gets in cocoa what in other chocolates he gets as sugar. The Compagnie Française of Bermondsey, are the manufacturers.

DRUGGISTS who do a cigar and tobacco trade should get a copy of the price-list issued by Singleton & Cole (Limited), of Birmingham. The firm keep all kinds of cut and cake tobaccos besides their own manufacture, and the list shows a wonderful variety of packet tobaccos. The same applies to cigars and cigarettes, and the greater part of the list is illustrated, being devoted to pipes, pouches, &c.

SOME time ago, 250 of the employés of Messrs. Burroughs, Wellcome & Co. sent Mr. Gladstone a travelling-case of "tabloids," and the right honourable gentleman sent a letter acknowledging it. The firm have had this letter reproduced on wood films from the trunk of a sycamore-tree felled by Mr. Gladstone himself. Any chemist who would like a copy of this (it is nicely mounted) can get one by applying to the firm.

MESSRS. HILL, EVANS & CO., vinegar-makers, of Worcester, in view of the present agitation against the sale of pyroligneous acid as vinegar, have got a report from Dr. Sweete and Mr. C. H. Pope, who have inspected all the processes carried on in their factory, from the grinding of the malt to the corking of the finished product. They are satisfied that this firm's vinegar is a pure malt vinegar, without the addition of any sugar or chemical ingredient.

AT the eighth annual meeting of shareholders in Phillips & Co. (Limited), of Bombay, which was held in that city on June 8, the directors submitted a report stating that the trading during the year ending February 28, 1893, had been somewhat more favourable than that of 1891–2, owing chiefly to a reduction in the working expenses. The net profits on the year's trading amounted to 62,538r. It was proposed to devote 35,000r. out of this sum to the payment of a dividend at the rate of 7 per cent., payable from July 1. It was further proposed to use the surplus to provide for depreciation of plant, 1,500r. ; reserve fund, 5,091r. ; writing off goodwill, 13,500r. ; ditto bad debts, 5,766r. ; leaving 2,281r. to be carried over to the reserve fund, which now amounts to 20,000r. The sum of 13,500r. written off goodwill closes this account, and on comparing the balance-sheets for the last three years the profits made indicate steady profitable business. After publication of the report the shares of the company advanced to 90r. in the market.

PREVENTION OF FLEA-BITES.—Mr. Peter Boa, Edinburgh, writing to the *British Medical Journal*, recommends the following powder :—

Pulv. amyli	ʒv.
Zinci oxidi	ʒij.
Pulv. talci	ʒj.
Ol. eucalypti	gtt. x.
Ol. geranii	gtt. v.

M.

Sig. : To be freely dusted over the child's body with an ordinary powder-puff on being put to bed, and a little on the bedclothes.

The powder to be effective should not be kept longer than say, a week.

ARSENIC-MINING.

THE Rev. S. Baring Gould, the eminent novelist, writes an interesting article in last week's *Graphic* on "Arsenic-works on the Tamar." The great source of arsenic in England is the famous mine known as the Devon Great Consols. Early in the present century a spur of hill on the Tamar had attracted the attention of mining speculators. Money had been spent there without result other than that of exhausting the pockets of the shareholders, when, with great difficulty, a fresh company was formed in 1844 to make another attempt; and only 9 feet below the point at which the mine had been abandoned one of the finest lodes of copper ore ever discovered was struck. It was 30 feet wide and a mile in length. At the end of ten months the company divided 70,000*l.* The lode was worked for twenty-eight years, and then gave out. It would have been abandoned before this had not the waste thrown out as worthless when copper was sought proved rich in arsenic. The Devon Great Consols is now resolved into arsenic-works. Copper is still raised, but in comparatively small amount, and is despatched to South Wales, there to be smelted. As it takes 4 tons of coal to smelt 1 ton of copper, it is obviously advisable to carry the ore to the coals, and not bring the coals to the ore. Besides copper ore, the mine had yielded vast quantities of mundic. Mundic is iron pyrites; and the arsenical pyrites consists of 25 to 30 per cent. of iron, 12½ to 14 per cent. of arsenic, and the rest earthy matter. This goes through several crushing and sorting operations, the latter being carried on by girls from 13 to 16 years of age. These are known as "bâl-maidens," "bâl" being Cornish for "mine," and has no connection, Mr. Gould explains, with Baal, the Phœnician deity, as certain wiseacres would have it, any more than has Ball's Pond, in London. After washing and "jigging"—that is, sifting—the arsenical pyrites is conveyed to the first calciner, where it is burnt with low-class coal and produces "arsenic-soot"—that is, arsenic so mixed with smoke-soot from the coal as to be of a grey colour. The arsenic and soot are deposited combined in the chimney, or condenser. This is scraped out, and taken to the second calciners to be purified.

These calciners consist of revolving iron drums, through which a fire of anthracite coal is carried on rotating iron furnaces kept red-hot, to which the arsenical soot is fed, the arsenic being sublimed and condensed "as white as a hound's tooth," to use the local expression.

The calcining of the arsenic is let out to the workmen. Three men in four weeks will make 100 tons of arsenic; if they make more they receive extra premium; if they burn the arsenic badly, so that it is wasted, they are fined, and the fine has been known to amount to 30*s.* Some years ago arsenic-soot fetched from 2*s.* 6*d.* to 15*s.* a ton; it is now worth from 7*l.* to 7*l.* 10*s.*

The chimney in which the arsenic is condensed is a mile long, carried on an incline up the hill, with iron doors in the side. As the hot blast passes up the chimney it deposits a crust of arsenic crystals on the brickwork all round to the depth of from 2 to 3 inches, and it deposits minute dust of crystals on the floor. Before the smoke passes into the upright chimney, the height of which is 125 feet, it has to traverse a shower of water, which catches what remains of the arsenic, after which what passes forth is nothing but sulphurous acid.

The crystals of arsenic are scraped out of the flue, or condenser, whilst still warm, and are ground in a mill to flour of arsenic, after which it is packed in small barrels, containing a little over 3 cwt.

The men who work the arsenic, either raking up the arsenic-soot, or scraping out the condensers, or grinding it in the mill, are obliged to wear mufflers over their mouths and noses, to prevent them inhaling the particles. The arsenic-workers are obliged to wash themselves thoroughly every day on returning from the works, as the arsenic is liable to produce sores wherever it lodges in wrinkles and folds of the flesh, especially about the mouth and nostrils, the wrists and ankles, and under the arms—in fact, wherever perspiration lodges. As a rule, it only does this when the worker is careless about his personal cleanliness. Otherwise the work is healthy: it prevents all eczema; and the fumes of sulphurous acid, as well as the arsenical dust, are fatal to the germs of disease—such as scarlet fever. Eventually the workmen may come to suffer from the chronic arsenical symptoms, which are—loss of appetite, silvery coating to the tongue, nausea, frontal headache, languor, sleeplessness, and anæmia. When that is the case, they have to give up the work entirely, but many remain at the works for a great many years without suffering; but these are men who have been scrupulous about their personal cleanliness, and have not been careless concerning their mufflers.

The vapour of the burning pyrites contains not arsenic only but also sulphur, the iron cinder is cast away, the arsenic is condensed; by the time the upright shaft is reached, the vapour is reduced almost entirely to sulphurous acid. The water flowing away from the chimney is like soapy water, so charged is it with sulphur, and the fume blasts the vegetation for some distance round, making Blanch Down an eyesore in the landscape.

When the upright shaft has to be entered, for one purpose or another, the effect on the eyes is most painful—it is as though they were smitten with vitriol. The men wear linen garments lined with flannel, and the sulphuric-acid fume will completely destroy the linen in a few moments, leaving the flannel intact, so that the men go into the shaft in linen and come out clad in wool. Happily the necessity for entering the shaft is not of frequent occurrence, or they would lose their sight.

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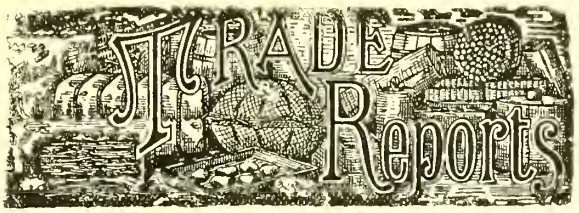
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A complete digest of the Acts governing the practice of pharmacy, with notes on all the principal decided cases. The above books can be obtained through any of the wholesale drug, sundries, and patent-medicine houses in London or the provinces at the published price.



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

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42 CANNON STREET, E.C., *July* 26.

The German Chemical-trade.

The figures below represent the exports from Germany during the last three years (in quantities of 100 kilos.—or, say, 2 cwt.) of the principal chemicals produced in that country:—

Articles	Quantity		
	1892	1891	1890
	100 kilos.	100 kilos.	100 kilos.
Essential oils	2,581	2,546	3,652
Soda (calcined)	345,788	353,303	270,510
Potash salts	122,325	110,934	106,281
Alkaloids	658	584	561
Quinine	2,256	1,869	1,565
Chloride of potassium	632,417	769,962	676,580
Iodide of potassium	1,093	977	1,062
Sulphate of potash	203,907	301,888	193,133
Mineral waters	342,628	335,632	363,629
Salicylic acid	3,026	2,159	2,440
Saltpetre	98,446	98,952	101,349
Hydrochloric acid	117,614	103,100	80,502
Tartaric acid	11,512	7,769	10,211
Varnish and lac varnish	5,998	5,576	5,585
Ultramarine	43,533	44,040	52,583
Alizarine	76,770	81,685	79,055
Aniline	46,598	44,031	38,295
Other coal-tar products	107,251	86,818	72,797

The Russian Quicksilver Output.

At the quicksilver-mine belonging to a German firm in the Donetz Basin, the output of ore in 1892 was 64,836 tons, as against 50,114 tons in 1891. Of this quantity 60,888 tons were kilned, producing 334 tons of pure quicksilver, being an increase of 20 tons as compared with the previous year. The mine is now being worked at a depth of 290 feet, and the quality of the ore is found to be much inferior to that previously extracted, the yield of quicksilver showing a decline of about 25 per cent. in comparison with 1891.

The Camphor-supply.

Our recent comments upon the danger which might arise to the Japanese camphor-industry by the increasing exports of the Formosa variety are confirmed by Consul Enslie, of Hiogo, who observes:—"The camphor brought to market in Hiogo and Osaka during the year 1892 has been doctored and adulterated worse than ever, in spite of high values paid and the strong protests of purchasers, some of whom now absolutely refuse to have dealings in camphor, which has not drained in the warehouses during at least forty-eight hours.

"The Formosa drug threatens Japan's monopoly whenever work in the interior can be conducted regularly and free from the dangerous attacks of aborigines.

"In times gone by camphor was produced in Sumatra and Borneo, and in other parts of the East Indies, as well as in China; now, however, the crude camphor of commerce is a product of Japan and Formosa exclusively, the Formosa supplies having since the war between China and France been very small and uncertain until lately, when the industry was resumed by a German syndicate, upon concessions obtained from the Chinese Viceroy of the island, leading to increased exportation.

The Grasse Flower-crops.

Our last reports from Grasse state that the crop of jasmine-flowers is abundant, and that large quantities are being carried to the factories daily. Last year also the crop was abundant, and there is still a heavy stock of the old pommade in the perfumers' hands. The prices, therefore, are likely to keep very low this season. The arrivals of the new peppermint will begin shortly. The harvest of this herb has been delayed considerably by the drought, but the crop promises to be abundant and of good quality, notwithstanding which the growers are likely to make a good profit on the article. During the last few years the cultivation of this plant has been greatly extended in the Departments of the Alpes Maritimes and the Var. The hill distilleries, which are improvised in the more distant mountain districts every season for the treatment of the wild mountain flowers, are just about to start working. Wild flowers are abundant this season, and a great deal of oil is likely to be obtained.

The Auerbach Quinine-factory.

A rumour obtained currency on 'Change this week, and spread with great rapidity among the holders of quinine, that the Auerbach Quinine-factory was in liquidation and would give up manufacturing. This report is entirely inaccurate. All that has happened is that the factory in question is being re-converted from a limited company into a private concern a change which will enable the proprietors to dispense with certain formalities regarding the publication of periodical accounts prescribed by the law in the case of companies. The firm, however, propose to make quite as much quinine in the future as they have done in the past.

ACID (CITRIC).—Firmly held at 1*s.* 6½*d.* to 1*s.* 6⅝*d.* per lb. *Juice* offers at 19*l.* 10*s.*, f.o.b., prompt delivery, and 18*l.* 15*s.*, f.o.b., for forward delivery.

ACID (TARTARIC).—A very sluggish market at 11¼*d.* to 11¾*d.* per lb., according to brand and position.

ALCOHOL.—The market for German potato spirit is rather flat, and the quotation for good brands is now 8.9*d.* per proof gallon, c.i.f., naked, for large quantities.

ALOES.—Cape aloes remains scarce and dear. Some has been sold privately this week at 30*s.* for good hard black; fine bright greenish would probably be worth 32*s.* 6*d.*, but there is none of this quality offering at present.

BALSAM (PERU).—Rather dull of sale; 6*s.* 6*d.* is the nearest quotation for good unworked.

CAMPHOR (CRUDE).—Very quiet at following quotations: Japan on the spot 155*s.*, c.i.f. terms 135*s.*, China on the spot 130*s.*, and c.i.f. July-August 117*s.* 6*d.* per cwt.

CAMPHOR (REFINED).—Makers report a steady business at unaltered rates. German and French, 1*s.* 8½*d.* per lb., net.

CANARY-SEED.—*Turkish* seed for arrival is offering at lower prices—viz., 37*s.*

CARAWAY-SEED.—It is said that this season the Dutch caraway-plantations flowered too early, and in consequence of the total dearth of rain the plants remained small and insignificant. Beetles and worms have added to the damage; when the plants are large and vigorous the insects do less harm, but when small and feeble the damage they effect is much greater. As the caraway-plant is biennial, the outlook is worse for the 1894 crop, as the seed for this has been sown in March and April of this year. The continuation of the drought for months after this period not only affected the germination of the seed, but killed the few plants that developed in spite of the dryness, so that it has been necessary to plough up most of the fields again. In consequence of these unfavourable conditions, prices in Holland have already risen more than 35 per cent. The caraway-seed that

is brought upon the market from Russia, Norway, and Finland is considerably inferior, but, notwithstanding, such high prices are already asked that they can scarcely be regarded as warranted—a proof that the depressing prospect has most radically influenced the market.

Cevadilla.—Exceedingly scarce; holders mention 3*s.* 3*d.* per lb. as the price; probably a shade less would be accepted.

Chamomiles.—Good bright Belgian flowers are offering at 75*s.* per lb. for early delivery.

Cinchona.—Tuesday's bark-auctions bore off the palm in respect of insignificance, the quantity of bark offered being barely one-fourth of that shown at an average sale. There were nine catalogues, which included:—

	Packages		Packages	
Ceylon cinchona	218	of which	138	were sold
East Indian cinchona	404	„	404	„
South American bark ..	256	„	246	„
	878		788	

African or Javan barks were not offered. The assortment was rather poor, and very little interest was shown in the auction, one or two firms abstaining from competition altogether. The unit remains unchanged, at from $\frac{9}{16}d.$ to $\frac{5}{8}d.$ per lb. for ordinary and medium qualities. The approximate quantities secured by the principal buyers were:—

	Lbs.
Agents for the Mannheim and Amsterdam works ..	48,834
„ Brunswick works	25,589
„ Paris factory	25,185
„ Frankfort o/M. and Stuttgart works ..	8,260
„ American and Italian works	1,908
Messrs. Howards & Sons	900
Sundry druggists	25,479
Total quantity sold	136,155
Bought in or withdrawn	30,910
Total quantity offered	167,065

It should be remembered that the quantity of bark purchased by the various buyers affords no clue to the quantity of quinine acquired by them. The following prices were paid for sound bark:—

Ceylon Cinchona.—*Original*—Red: Dull to good bright quilly stem and branch chips, 1*d.* to $1\frac{3}{4}d.$; dull root, $1\frac{1}{4}d.$; fair medium druggists' quill, $2\frac{1}{2}d.$ to $2\frac{3}{4}d.$ per lb. Grey: Dull woody stem chips, $1\frac{1}{2}d.$; dull root, $1\frac{1}{2}d.$ per lb. Yellow: Fair bright quilly stem chips, $3\frac{1}{2}d.$ to 4*d.* per lb. *Renewed*—Dull red stem and branch chips, $1\frac{3}{4}d.$ per lb.

East Indian Cinchona.—*Original*—Red varieties: Dull woody to fair stem and branch chips, 1*d.* to $1\frac{1}{2}d.$; ordinary to good bright quilly shavings, $1\frac{1}{4}d.$ to $2\frac{1}{4}d.$ per lb. Grey varieties: Fair root, 4*d.*; low to fair quilly branch chips, $1\frac{1}{2}d.$ to 3*d.*; fair to good bright quilly stem and branch chips, 4*d.* to $4\frac{1}{2}d.$ per lb. Yellow: Fair shavings, 3*d.*; dull branch chips, $1\frac{1}{2}d.$ per lb. *Renewed*—Dull dusty red shavings, 1*d.* to $1\frac{1}{4}d.$; fair grey chips, $3\frac{1}{2}d.$ per lb.

South American Bark.—Cultivated Bolivian *Calisaya* in fair to good bright quill, $3\frac{3}{4}d.$ to 4*d.*; damaged ditto, 3*d.* to $4\frac{1}{2}d.$ per lb. Twelve bales *Cuprea*, 1884 import, sold at $\frac{1}{2}d.$ to $\frac{3}{4}d.$ per lb.

Cloves are easier privately, with sales of fair Zanzibars on the spot at $2\frac{1}{2}d.$ per lb. At auction, however, 250 bales sold steadily to-day at $2\frac{1}{2}d.$ to $2\frac{3}{4}d.$ per lb. for fair to good.

Cochineal.—The supplies of *Teneriffe* are getting rather small, and the market has advanced somewhat, 1*s.* $1\frac{1}{2}d.$ to 1*s.* 2*d.* per lb. having been paid for fair black quality.

Cream of Tartar.—Barely steady, at 76*s.* per cwt. for best white French crystals, and 78*s.* for powder.

Ergot of Rye.—The market is very firm, but it is difficult to induce any operators here to buy. A little Belgian worked of good quality has been sold this week at 1*s.* $8\frac{1}{2}d.$ to 1*s.* 9*d.* per lb. Old Spanish is offering at 2*s.* per lb.; new crop Spanish not yet available.

Galls.—*China* have recently sold at easier prices, and business has been done in fair quality on the spot at 52*s.* per cwt.

Ginger.—The market keeps very quiet. At auction today 498 packages *Cochin* were mostly bought in at nominal rates; 60 bags old rough washed sold at 58*s.* per cwt. *Jamaica* ginger was 2*s.* to 3*s.* cheaper, with sales of Rhatoon and common dull at 58*s.*; medium lean dull, 61*s.* to 64*s.* 6*d.*; good bleached, 80*s.* per cwt.

Ipecacuanha.—Firmly held; from 30 to 40 serons Rio are reported to have been sold since the sales at some slight advance—namely, up to 5*s.* 6*d.* per lb. for fair quality. For Cartagena root from 4*s.* to 4*s.* 3*d.* per lb. has been paid. A consignment of 128 serons Brazilian root has just arrived.

Jalap.—For a small quantity of fine Vera Cruz root a bid of 1*s.* 1*d.* has been refused this week, 1*s.* 2*d.* being the nearest price; ordinary mixed is held for 1*s.* per lb.

Oil (Castor).—Steady business has recently been done in first quality Calcutta oil at $3\frac{1}{4}d.$, and in seconds at $2\frac{3}{4}d.$ to $2\frac{7}{8}d.$ per lb.

Oil (Cod-liver).—Small sales of good non-congealing Norwegian are reported this week at 55*s.* per barrel, London terms.

Oils (Essential).—American *Oil of peppermint* is dull and neglected, and offers on the spot at 12*s.* 3*d.* per lb. No definite news is yet available with regard to the English crop, but the prospects are believed to have much improved lately, for 32*s.* to 34*s.* per lb., according to quality, is asked for Mitcham oil. *Otto of rose* is firmly held, but without change in quotations. *Menthol* steady at 11*s.* 3*d.* to 11*s.* 6*d.* per lb. for good Japanese. *Star-anise* oil is offering at 5*s.* 6*d.* per lb. on the spot, and to-day's cable quotation is 5*s.* 6*d.*, c.i.f. terms, prompt shipment. *Cassia oil* is said to have been sold at slightly easier terms—namely, at 2*s.* 8*d.* per lb., c.i.f., for shipment, without guarantee of quality. *Lemon-grass* is held for $2\frac{1}{4}d.$ to $2\frac{3}{8}d.$; and *Citronella* for $\frac{3}{4}d.$ per oz. The exports of *Cajuput* oil from Macassar, the only port of shipment, in 1892 were 2,956 baskets (of 25 bottles each), against 2,427 baskets in 1891, and 3,121 baskets in 1890.

Opium.—Business in London and in Smyrna is practically at a standstill. There is no further news concerning the coming crop, which is arriving at the market very slowly. The quotations for opium remain as last given. Persian is held at from 9*s.* 6*d.* to 12*s.*, according to quality.

Pilocarpine.—There appears to be only one manufacturer still able to supply this drug, which now, owing to the continued scarcity of jaborandi-leaves, has risen to fabulous prices. The quotation has recently been advanced by this maker from 60*s.* to 70*s.* per oz. for nitrate, and 72*s.* 5*d.* for hydrochlorate.

Quassia.—Seventeen tons sold at auction last week at 92*s.* 6*d.* to 122*s.* 6*d.* per ton for logs (without reserve) and 9*l.* per ton for kiln-dried chips.

Quicksilver is very flat. The importers still hold at 6*l.* 17*s.* 6*d.*, but in the second-hand it is possible to buy at 6*l.* 13*s.* per bottle.

Quinine.—The makers' quotations remain unchanged, as follows:—Howards, tins, 1*s.* 1*d.* to 1*s.* 2*d.*; vials, 1*s.* 2*d* to 1*s.* 3*d.*; Whiffins, tins, 1*s.*; vials, 1*s.* 2*d.*; Brunswick, Mannheim, and Auerbach, tins, $10\frac{1}{2}d.$; Zimmer & Jobst, tins, 11*d.*; Fabrica Lombarda, tins, 11*d.*; vials, 1*s.* 1*d.*; Pelletier, vials, 1*s.* $5\frac{1}{2}d.$ There has been rather more demand during the last week for second-hand quinine, and sales have been made of 3,000 oz. German bulk at 9*d.*, and 25,000 oz. ditto at $8\frac{7}{8}d.$ per oz.; there are still further sellers at the latter price.

Senega-root.—A very fair quantity has been sold this month at steady prices, up to 2*s.* 5*d.* per lb. for good bright quality.

Shellac.—The market opened firmly this week, TN orange lac for August being held at 108*s.* per cwt. At auction only 395 cases were offered, of which 150 sold, partly without reserve, at unchanged prices, except for fine second orange, which was slightly lower. Unworked slightly reddish to good second orange, 106*s.* 3*d.* to 107*s.* 6*d.*; fine seconds, 110*s.*; *Garnet* AC, slightly cakey, 92*s.* to 93*s.* per cwt. Fine orange, octagon B, sold at 120*s.*, and VSO at 115*s.* per cwt. privately. Since the auctions 100 cases TN, August delivery, have sold at 107*s.* 6*d.* per cwt.

TONQUIN BEANS.—The market is quiet, with small sales of medium, slightly frosted *Pará* at 2*s.* 4*d.*, and good frosted ditto at 2*s.* 10*d.* per lb. Good to fine *Angostura* beans are quoted at 5*s.* 6*d.* to 7*s.* per lb.

VALERIAN-ROOT.—Very scarce, 40*s.* per cwt. being now asked for good Belgian.

VANILLA.—The following figures refer to the yield of the Bourbon crop during the last twenty-four years :—

Year	Kilos.	Year	Kilos.	Year	Kilos.
1869–70 ..	12,624	1877–78 ..	32,077	1885–86 ..	57,073
1870–71 ..	7,462	1878–79 ..	29,912	1886–87 ..	48,549
1871–72 ..	13,780	1879–80 ..	44,689	1887–88 ..	89,057
1872–73 ..	11,814	1880–81 ..	23,031	1888–89 ..	52,217
1873–74 ..	9,804	1881–82 ..	27,764	1889–90 ..	48,049
1874–75 ..	20,865	1882–83 ..	21,095	1890–91 ..	85,647
1875–76 ..	22,882	1883–84 ..	28,049	1891–92 ..	90,722
1876–77 ..	26,818	1884–85 ..	48,648	1892–93 ..	94,282

THE LIVERPOOL MARKET.

ARROWROOT.—Prime West Indian offers at 5*d.*

CALABAR BEANS.—1½*d.* has been taken for further parcels, but the price has been refused for 65 bags, and now 2*d.* is asked.

CANARY-SEED.—The market has become easier, and good bright *Turkish* are now obtainable at 57*s.* 6*d.* to 60*s.*

FENUGREEK-SEED.—One hundred bags ordinary Egyptian just landed sold at 8*s.*

OIL (CASTOR).—The *Pindari* has arrived with 1,205 cases, and one or two holders showed signs of weakness ; but the market again closes at 2⅓*d.* for good seconds Calcutta.

QUILLAIA, owing to arrivals, is easier, and sales have been made at 17*l.* 10*s.* to 17*l.* 15*s.*

SARSAPARILLA.—Ten bags offered at auction, but no bids were forthcoming.

WAX (BEES').—*Chilian* is in fairly abundant supply, but owners are inclined to hold out for full prices, and sales have been made during the week at 7*l.* 15*s.*, for fine yellow, and 7*l.* for mixed grey to yellow.

BEHAVIOUR OF RED COLOURING-MATTERS.—If a coloured solution is to be examined for the identification of the colouring-matter, the following test (first devised to detect aniline red in carmine) will prove serviceable. The solution is mixed with 1 volume of chloroform and 3 volumes absolute alcohol and thoroughly agitated; 2 volumes of water are then added (without agitating the mixture), which causes the carmine to separate almost completely between the two layers of the liquids; aniline red in this test is found entirely in the chloroform layer. An examination of a number of vegetable red colouring-principles according to this test resulted as follows :—

Elderberry.—Most of the colour remains dissolved, the upper layer having a rose-red, the lower layer a pale yellow, colour; the addition of ammonia gives a green colour with both layers.

Logwood.—A violet separation, upper layer coloured; ammonia colours the upper layer red, the lower layer violet.

Red rose.—The colouring-principle is yellowish-red, but separates completely with blue-violet colour.

Rhatany extract.—Slight separation of brown colour.

Currants.—The colour separates almost completely of a rose-red colour.

Cochineal.—Violet ring, the colouring-matter only separating partially.

Red wine.—Rose-red ring; after adding ammonia the upper layer becomes dirty-yellow in colour.

Raspberry.—Rose-red ring after adding ammonia.

Madder.—Red separation, chloroform layer yellow.

Alkanet.—The colouring-principle passes into the chloroform layer and is turned blue by ammonia.

Red sanders.—The yellowish-red colour is imparted to the chloroform, ammonia entirely decolorising.—*Oesterr. Ztschr. f. Pharm.* and *Amer. Journ. Phar.*

LOCAL ANÆSTHETICS FOR DENTAL PURPOSES.

PROFESSOR SAMUEL P. SADDLER, of Philadelphia, has analysed for Dr. W. C. Wood, of that city, a number of secret local anæsthetics, and the results are published in *Dental Cosmos*. It is rather a remarkable thing that most of the preparations are said to be superior to cocaine, although nine of them were found to contain that valuable substance. The following is a summary of Professor Saddler's results :—

	Non-volatile Matter	Anhydrous Cocain Hydrochlorate from Chlorin Determinations	Alkaloid extracted by Chloroform	Other Constituents
1. Dickson's "Improved"	4·06	3·90	3·27	Carbolic acid, chloral hydrate
2. Arophene	12·92 (Liquid)	1·46	1·05	Carbolic acid, chloral, glycerin, oil of rose, and probably alcohol
3. Jessop's	3·82	2·63	1·22	Carbolic acid, oil of rose
4. Dorsenia	0·30	0·20	0·145	Carbolic acid, camphor, and probably alcohol
5. Weinmann's	5·46	5·68	3·72	Alcohol, oil of peppermint, brown colour, and iodin (indicating aristol possibly)
6. Odontunder	10·14 (Liquid)	1·35	1·10	Carbolic acid, glycerin, oil of rose, and probably alcohol
7. Dental Surprise	1·37	1·46	1·16	Carbolic acid
8. Barr's	0·06	None	None	Alcohol solution of oils of peppermint and cloves
9. Eureka	3·36	3·26	1·37	Carbolic acid and oil of rose
10. Anæstbeto-Obtundent	(Liquid)	3·39	2·61	Carbolic acid, camphor, glycerin, oils of cinnamon and citronella, and probably alcohol

We have recently examined "Dorsenia," and the "camphor" in it appeared to us to be "menthol." Apart from the question of cost in using the above preparations, it is important for operators to know what to do when untoward results follow. The treatment should, therefore, be that for cocaine-poisoning.

CARMINE.—Interesting particulars in regard to this colouring matter have recently been published by S. Feitler (abstract *J.S.C.I.* 256), and his experiments reveal the fact that adulteration is freely practised. He analysed six samples, their technical names being : (1) Best Naccarat carmine, (2) best genuine carmine, (3) best genuine carmine, (4) ordinary carmine, (5) antique carmine, and (6) best Naccarat carmine. The last three were adulterated, No. 4 containing 88·5 per cent. of ash, consisting of lead oxide, alumina, and lead sulphate. It had probably been prepared from a sample of eosin with a blue tint by precipitation with lead acetate and alum. No. 5 was much like the sample known as "best genuine," but the ash amounted to 74·56 per cent., and consisted mostly of barium carbonate and some sulphate. According to Bonath it was a baryta lake of corallin. No. 6 was found to be a mixture of genuine cochineal lake and a lake prepared from a coal-tar colouring-matter. It contained 15·28 per cent. of ash, 16·08 per cent. of water, 17·31 per cent. of nitrogenous matter, and 51·33 per cent. of colouring-matter (reckoned by difference). The artificial colouring-matter present was identified as a true lake of phloxin. In the genuine samples the ash amounted to 7·09, 9·18, and 7·24 per cent., and this consisted of 35, 25, and 43 per cent. of Al_2O_3 and 44, 31, and 36 per cent. of CaO. These results practically agree with Deehan's (*C. & D.*, 1885, p. 518), and it is another warning to chemists not to stock an article which contains much more than 10 per cent. of ash. As the ash of genuine carmine contains neither barium nor lead, the least trace of these should be looked on with suspicion.

Correspondence

Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

The Pharmaceutical Examinations.

Earl (76/51), writing respecting the July examination at Edinburgh, states that he was called upstairs at 10.20 for his practical chemistry examination, and could not commence work until 10.25; while at five minutes before 1 the candidates were told they must finish in a few minutes. In the regulations it is stated that three hours are to be devoted to this examination. This candidate complains of the rudeness of one of the examiners, and also states that one of the balances was out of gear.

Anti-Coercion (85/7) complains of the London July examination. This is his statement:—

"I entered Galen Place for the July examination with a light heart, feeling confident of at least getting through the practical portion—only to be disappointed; and I honestly claim to never having a chance to show my ability.

"My first subject was dispensing; and, having some years' experience in first-class dispensing-houses, I do not in any way complain about the stiffness of the examination, but I do maintain it to be very unfair to taunt a candidate with sarcastic remarks whilst compounding medical prescriptions, apparently with the object of making one nervous and mixed up.

"On being told that I had failed, I replied it was very hard to be turned out in one's first subject, without a chance, especially as in April I did very well in practical work, and went through all subjects, failing on the aggregate in theory, when an examiner thundered out, 'There is no appeal what ever against the decision of the examiners,' and commanded me to immediately leave the room, which I quietly did."

We publish a comment on these communications elsewhere.

Indian Soda-water.

Sir,—Your contemporary, the *Indian Medical Record*, from which you quoted in your issue of June 17, certainly labours under a grave delusion in stating that "not a grain of soda enters into the composition of the soda-water manufactured by a single one of the factories in Calcutta." He should make particular inquiries before spreading erroneous assertions of this description. His article might probably apply to some of the smaller native manufacturers, but I can confidently state that under the firm I am connected with, whose daily output averages about 8,000—and all the European chemists in Calcutta—each bottle of soda-water sent out contains the usual amount of bicarbonate of soda; and soda-water is not only labelled differently, but differs in composition from aërated water, which is almost as much in demand as soda-water.

Yours faithfully,

Calcutta, July 4. Belatee Panee. (86/59.)

Advice to the Trade.

Sir,—Your "Customer in a Hurry" on page 117 of this week's journal is very telling, but it points to a section of the trade extremely difficult to awaken. Others are willing and anxious to do business, but work on too low a level. Led away by their customers' continual praise of the cheapness of the Stores, they continually offer small packages at a very small price. This naturally conveys to a customer, indirectly, that the chemist has very little faith in the remedy offered. "Just a little, the smallest quantity, to try," shows a glaring want of confidence. "They can come for more again," but they don't. The little either relieves or does no good at all. In neither case does the customer purchase more. If the customer had been convinced of the efficacy of a remedy offered he would have bought a larger quantity upon the offer of a reduced rate. He would have received permanent benefit, and had some left to talk about and give to friends. The package would also remain a standing advertisement of the address it was purchased from; the smaller package is thrown away empty. The meanest people have money to spend, or can get it if rightly talked to. Very poor people will part with 10*s.* for a remedy they are convinced will cure them. This applies more or less to everything a chemist sells. For instance—a few days ago a lady purchased a pennyworth of calcis chlor., for an ashpit, from a chemist. She complained of the "tiny bit" supplied, and asked me to send her a jarful wholesale. She paid the 8*s.* cheerfully. Again, when an article is put into a customer's hand, and its virtues explained with an evident desire to impart information, it must be a very useless article if the customer does not either purchase it or tell somebody else about it. When a man asks for ½ oz. of lozenges, and the chemist says, "Well, it is not worth my while to weigh out ½ oz., sir;" the man, displeased, may say, "Oh, then give me an ounce," and never enter the shop again. But if the chemist had said, "I can give you ¼ lb. for so much less, and you will really derive very little benefit from ½ oz.," he would probably secure a regular customer. Money spent with an obliging man who seems to have the customer's interests in view is no more missed than yesterday's sunshine.

Yours faithfully,

Liverpool, July 21. C. Bromley.

Chromic Acid and Glycerine.

Sir,—I am sure we are all very much indebted to Dr. Gubb for his letter in The Chemist and Druggist of July 15.

It is not that we are surprised to hear that chromic acid and glycerine are explosive, for the laziest of us has got as far as the tenth page of his B.P. and learnt that; nor is it that we are deeply thrilled with the story of Dr. Gubb's narrow and lucky escape; but we are grateful for the splendid argument with which the letter furnishes us in favour of chemists performing all dispensing operations.

Surely, sir, if a medical gentleman (with a handle to his name, too) displays such a sad lack of pharmaceutical knowledge, it is evident that the claim of the chemist to be recognised as the only efficient dispenser of medicines is just and right.

Yours, &c.

$AgNO_3$.

Salaries in the Far East.

Sir,—It may interest any of your readers who contemplate coming to the Straits Settlements to know something about the value of the dollar here. When I arrived, in May, 1891, the dollar was worth 3*s.* 3*d.*; since then it has fallen to 2*s.* 6¾*d.*, so that the difference in $150 is 5*l.* 3*s.* 1½*d.* per month, or 61*l.* 17*s.* 6*d.* per year.

Many young aspirants who arrive here are totally ignorant of the meaning of "exchange" until they land, and I would advise any gentleman coming to the Straits to make all possible inquiries as to rate of exchange, or, better still, demand to be paid in sterling.

Yours truly,

Penang, June 29. Kari Nasih. (86/58.)

The Hop-bitters Company.

Mr. W. H. Hiley, manager of this company, writing in regard to a paragraph which appeared in our Foreign and Colonial News last week, wishes us to make it clear that this did not refer to the English branch of the company. This branch is entirely distinct and separate from that of the United States, and the present proprietors of the branch

purchased some two years ago the sole right, trade-marks, &c., for Great Britain and the Continent from the original holders, and they are pushing business in all directions.

DISPENSING NOTES.

Correspondents should consult "The Art of Dispensing" in regard to dispensing difficulties. Difficulties not explained therein may be sent to the Editor, who invites a general expression of opinion upon the undermentioned topics.

Is it Homœopathic or Matteist?

SIR,—May I ask you to print in your journal the enclosed prescription, and to give me your opinion of it? It puzzles me. This is a correct copy. The original has been dispensed in Rome (Italy). It looks to me very much like a poison.

Aconitinæ..	una granula
Veratrinæ	,,
Digitalinæ	,,
Sulph. de strichninæ	,,
Sodæ bicarb.	gr. ij.

M. Ft. pulv. in ostia circ. Mitte x.
To take one every two hours.

BARRETT. (85/41.)

LEGAL QUERIES.

Immediate information on pharmaco-legal matters is available in "Pharmacy and Poison Laws of the United Kingdom," Alpe's "Handy-book of Medicine-stamp Duty," and THE CHEMISTS' AND DRUGGISTS' DIARY *page 152 et seq.*

79/74. *Laboratory.*—To convert a business into a limited liability company see THE CHEMISTS' AND DRUGGISTS' DIARY, 1893, page 171.

76/43. *Dens* writes:—"If a customer asks for white vinegar am I justified in serving acid. acetic. dilutum?" According to common sense, yes; according to recent magisterial decisions, no. Of course no one can justify the supply of acid. acetic. dil. when "white-wine vinegar" is asked for.

81/20. *E. F. S.*—Scores of eminent firms trade under an assumed name. The President of the Pharmaceutical Society is a notable example. We presume it is legal.

85/17. *J. C.*—It is not illegal for unqualified dealers to sell the ordinary insect-powder. It is not a scheduled poison.

85/32. *Norwegian.*—We do not consider that spirit. chloroform., æther. chlor., ung. hyd. ammon., and ung. hyd. oxid. rub. are poisons within the meaning of the Pharmacy Act. See "Pharmacy and Poisons Laws," pages 67 and 90.

82/12. *H. B.*—Laudanum is given as a synonym for tincture of opium in the British Pharmacopœia. It appeared first in the 1888 reprint of that work. For leading case on the point see THE CHEMIST AND DRUGGIST, May 21, 1887.

87/44. *One in Doubt.*—Anyone, whether on the Medical Register or not, may write a prescription, and a chemist is justified in dispensing all such prescriptions.

MISCELLANEOUS INQUIRIES.

The Editor replies to queries of general interest, in the order in which they are received. Replies are inserted according to the space available. Postal answers cannot be supplied.

Back numbers, containing formulæ, educational or other specific information can be obtained from the Publisher.

86/18. *Subscriber.*—We cannot suggest any more convenient way of keeping THE CHEMIST AND DRUGGIST for reference than by binding it every half-year. An index is always supplied with the last issue of each volume.

86/10. *A Busy Man* suggests that we should ask readers of this journal to intimate to us whether they would subscribe to a general index of THE CHEMIST AND DRUGGIST, in order to have a convenient means of reference to the multitude of hints, formulæ, &c., which have been published in our forty-three volumes. No one would value a general index more than ourselves, but we shrink from the task of executing it, and see no possibility under any circumstances of getting recouped for the labour and expense. We are compiling and revising as we go along the most useful items from our back volumes, and shall publish the result in a book one day; but as we do not intend this to be a mere scissors-and-paste collection, we do not get along so fast as might be expected.

86/13. *Moor* asks, "Can you give me details as to how borax and boracic acid are combined to give a granular crystalline salt? The proportions are 1 of boracic acid to 2 of borax. This is extensively used as a **Preservative for Meat**, &c." We understand that the borax is dissolved in its own weight of water by heating, and to the boiling solution the acid is added. Then the solution is constantly stirred until the whole of the water evaporates. The resulting granulated powder differs in composition from the original solids, and it is not so effectual an antiseptic as boric acid alone. Some add a half part of dry sodium carbonate to the mixture, thereby ensuring more perfect solution of the acid. You will find it advantageous to try that.

84/71. *Dispenser.*—Fluoride of calcium is fluorspar, and occurs naturally. We cannot say what the price per lb. is, as it is not a regular article in the drug-market. Ask a wholesale house or dealer in experimental chemicals the question.

85/36. *Country Chemist.*—You should omit the ammonium chloride from the liniment; but if you must have it in, try adding it to the liniment the last thing rather than the first. The liniment would be greatly improved by adding to it a solution of 1 drachm of powdered resin and 2 drachms of carbonate of soda dissolved in 2 oz. of the water by boiling.

85/18. *Rad.*—The **Marking-ink** which you suggest would burn holes in the linen. We have explained why many a time. It is the nitric acid of the silver nitrate that does this when the heat is applied to the writing. Redwood's formula you will find in *C. & D.*, November 15, 1890, page 697. Marking-ink to use with a stamp must be thickened with glycerine and sugar. We really cannot enter into correspondence with subscribers regarding queries. As it is, we give a great deal of time to this branch of our work, and we should consider it to a large extent wasted if we did not lay the results before all our subscribers. Correspondence by post would be the first step towards abandoning a department which is generally liked. These are our reasons for not accepting your proposal to investigate the linen-bleaching problem. Moreover, that is not a matter of pharmaceutic interest, and seeing that you are willing to pay for advice, we think you could lay your money out to better advantage by consulting a linen-expert.

85/12. *Swede.*—**Homœopathic Mother-tinctures** are 1 in 10. They are made, if possible, from the fresh drugs, and the alcoholic strength is equal to proof spirit. From these particulars you can judge how you may convert those which you have into B.P. tinctures.

85/15. *W. P. W.*—You should get our last Educational Number (September 17, 1892) and read therein the advice which we give to young students. Bentley's 1*s.* "Botany," published by the S.P.C.K., will suit you nicely in the meantime. Get to know all about forms of leaves, flowers, &c.—in fact, morphology generally—before you attempt to collect plants for preservation. Also get a cheap microscope for examining the cellular structure of plants. We are always pleased to receive news contributions, and will thank you for newspapers which you may send us. Other items of information should be properly authenticated.

262/17. *A. W.*—There is no book published on the preparation of medicinal **Malt Extract**, but you will find a very good account of the process in the *C. & D.*, September 6, 1890. There are also working formulæ for preparations in the *C. & D.*, August 10, 1889, page 203. Malt extract with cod-liver oil is generally made by incorporating 25 per cent. of the oil with the extract when the latter is removed from the vacuum-pan, and adding suitable flavouring-oils.

86/24. *Odorata.*—**Tr. Opii Aquosa.**—This is a tincture made with a weak spirit—3 of water and 1 of rectified spirit.

80/21. *Dentifrice.*—Use any of the dentifrice-perfumes. given in the "*C. & D.* Recipes," in this issue. You cannot do better, but put the powder in bottles for hot climates.

81/54. *Progress.*—We do not recollect having seen your query before, nor can we find the recipe in The Chemist and Druggist Perhaps you will give us the reference, and we will have the matter investigated.

82/42. *Canadiensis.*—The same question was answered a week or two ago. Powdered *Capsicum annuum* is what is used for colouring canaries, and that is what your powder consists of.

82/38. *Vaseline.*—See *C. & D.*, October 15, 1892, page 598

83/14. *Dagonet.*—You can get indigo carmine from any good wholesale house. If they do not stock it they can surely get it for you.

83/57. *Double You.*—Try the oil-soluble aniline colours for **Colouring the Ointment Green.** You can get a blue if not a green, and use that with a suitable amount of gamboge. Dissolve them in half the linseed oil, and the wax in the other half; then mix with brisk stirring and with little further heat.

81/29. *Z. Y.*—The samples seem by the smell to be guano. We do not undertake analyses which are solely of personal interest.

85/26. *Bungo.*—**Spanish White** is sulphate of baryta in very fine powder. We have not heard before of its being used in photography, but presume you are right.

80/43. *Bismuth.*—**Oleate of Bismuth** as sent out by wholesale houses is substantially the pure oleate, and nothing more, being a solution of 2 parts of bismuth oxide in about 7 parts of oleic acid.

80/37. *Flasta.*—The preparation of ferro-prussiate paper has been described in The Chemitt and Druggist. Citrate of iron and ammonia, and ferroeyanide of potassium, are the sensitising agents. You can buy a sheet for 4*d.*

80/72. *Jean.*—Hydrogen and chlorine explode on contact with each other in sunlight. Please read your chemistry-books for further information.

80/66. *Bexhill.*—We give a formula in this issue which will suit you.

80/53. *Insecticide.*—Dogs and cats infected with fleas should sleep in pine shavings, and should be washed onee a week with carbolic soap. It may sound funny to wash a cat, but we know it to be done. You have to begin the experiment early in the life of the animal, however. A seasoned tom will not permit such liberties.

81/16. *Poorenough.*—There is a good old-fashioned plan and a simple one for the removal of **Walnut Stains**, but we forget it just at present. Try spirit of nitrous ether or solution of chlorinated lime.

82/17. *A Subscriber.*—The answer which the correspondent gives to your query in regard to the Irish moss is not quite satisfactory. It is as follows:—"As Irish moss is so very cheap, Mr. —— should sell his customer 7 lbs. or so to try. This would be much the most satisfactory way of doing things, beeause the bulk produced may depend on the time of immersion and temperature." You will notice that a pound of the moss is to be boiled with 10 gallons of water for two hours when it is intended for cattle. You should get at least 5 gallons of mueilage from that, and this is likely to make with meal three or four large pailfuls of mash.

INFORMATION WANTED.

The Editor invites, on behalf of inquiring subscribers, post-card replies to the following:—

66/55. Lever sheep-dipping apparatus: where obtainable?

82/28. Maker of, or agents for, German tins.

"I wish my teeth were not so regular," sighed the young woman, regarding herself pensively in the glass. "Every time I smile when I'm talking to Harry he looks as if he wondered how much they cost."

That Mineral Spring of His.—He was a weary, thin' and sallow-looking man, who had never been so far west before, and when he struck Carson City, Nev., he hailed the first native he met. "Can you tell me, sir, if there are any mineral springs about here?" "From the east?" asked the westerner. "Yes." "Come here for yer health? Tried everything, I suppose?" "Pretty near.' "Tried sulphur springs?" "Yes. Didn't help me a bit." "Been to Arkansas?" "Yes, and everywhere else." "What kind of water are you looking for now?" "Well, no kind in particular. I was told, though, that I'd find a variety of springs out here." "Going to locate?" "That depends." "Well, stranger, I have got just what you want. A vacant lot in the best part of the city. Finest iron springs in the country. Go and see for yourself." "But how do you know it's iron?" queried the easterner. "Well, pardner, I drove my horse through it and he came out with iron shoes on his feet. And that ain't all. I drove some pigs down there to drink. They turned into pig iron and I sold them to the iron-foundry. Just what you want. For sale cheap. Why, hello? What's the matter?" The weary easterner had turned abruptly, and was walking off up the road.

20 HIGHEST AWARDS. 20

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NEW YORK:—365 and 367 Canal Street, NEW YORK.
MELBOURNE:—484 Collins Street, MELBOURNE.

20 HIGHEST AWARDS:

LONDON, 1851; LONDON, 1862; PARIS, 1867;
SANTIAGO, 1875; PHILADELPHIA, 1876; PARIS, 1878;
SYDNEY, 1879; BRIGHTON, 1881; BOSTON, 1883;
ADELAIDE, 1887; MELBOURNE, 1888; PARIS, 1889;
EDINBURGH, 1890; ROYAL MILITARY, LONDON, 1890;
&c., &c., &c., &c., &c.

See also Inset betwe n pp. 32 *and* 33.

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Benzoic Acid & Benzoates.
Bicarbonate of Potash.
Bicarbonate of Soda (Howards').
Bismuth preparations.
Borax & Boracic Acid.
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Cocaine and its Salts.
Corrosive Sublimate.
Ext. Cinch. Liq. P.B., & H. & S.
Ext. Cocæ Liq. P.B.
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Liq. Bismuthi et Am. Citratis.
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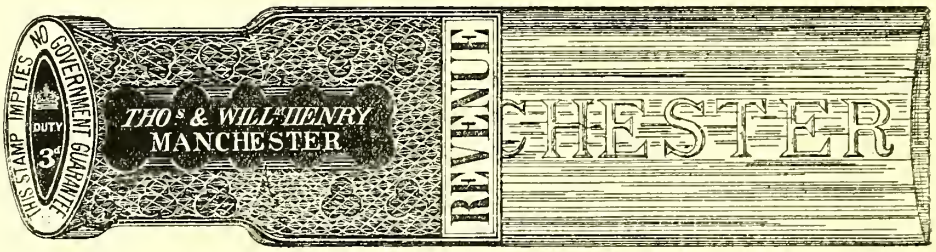


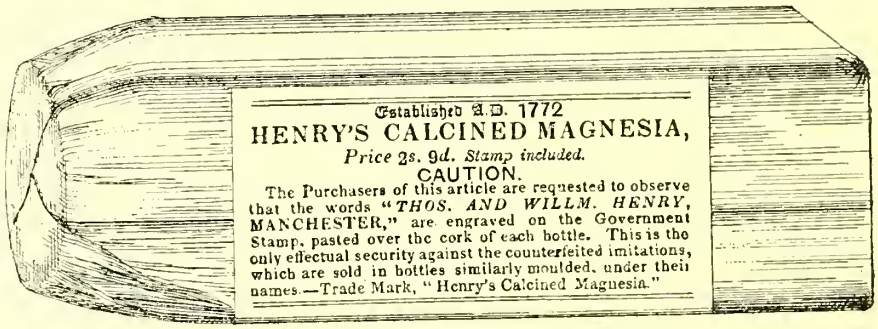
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Messrs. HENRY will be pleased to hear from Merchants who are suspicious of any Stock in their possession.

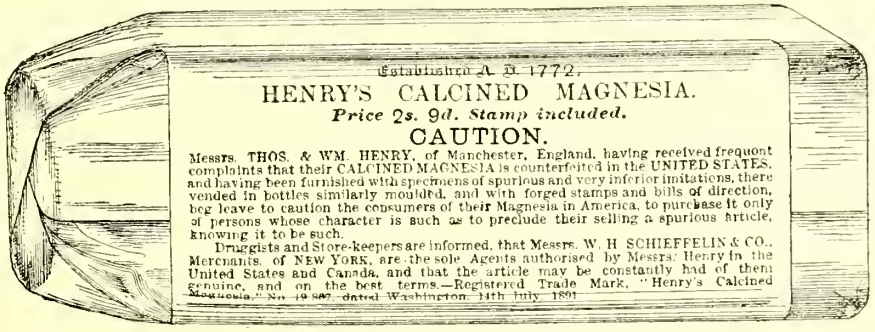
The Magnesia may be had through all Wholesale Houses.

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To the American Trade

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The sale of these articles in England is a felony punishable by penal servitude for a term not exceeding fourteen years, or imprisonment with hard labour for two years. The very serious nature of the offence deters the unscrupulous packers of the forged articles from offering them in England. Since this does not apply to the American continent, the Proprietors would point out to the Trade in Canada and the United States that they have a simple means of judging the genuineness of HENRY'S MAGNESIA, on examination of the true label, which is reproduced in facsimile in the following engraving :—



Merchants who find they have false goods are invited to communicate with

THOS. & WILLIAM HENRY, MANCHESTER,

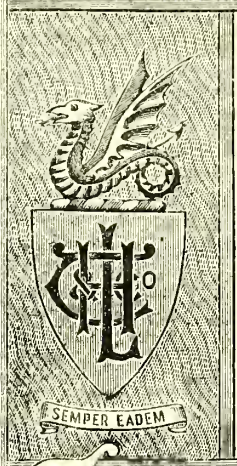
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SPECIAL NOTICE TO CHEMISTS.

"LLOYD'S LEICESTER"



The manufacture of Soluble Pearl Coated Pills was first introduced into Leicester by Mr. T. HOWARD LLOYD (18 years partner in the firm of JOHN RICHARDSON & CO.), and they are now made with the most complete and modern machinery, ensuring accuracy and uniformity, by

T. HOWARD LLOYD & CO. HIGH STREET, LEICESTER.

SOLUBLE PEARL COATED PILLS

Special NET CASH List.

In Ten Gross and One Pound Tins for CASH WITH ORDER.

	Per gross.	Per lb.
Pil. Aloes et Ferri, P.B.	6*d.*	4/-
,, Colocynth. Co., P.B.	11*d.*	8/-
,, Colocynth. et Hyos., P.B.	1/1	9/-
,, Rhæi Co., P.B.	6*d.*	4/3
APERIENT. 105 (*Each Pill contains ⅛ gr. of Calomel*)	6*d.*	4/3
106 As No. 105, with 1 gr. Calomel in each Pill	6*d.*	4/6
107 As No. 105, without Calomel	6*d.*	4/3
110 Hospital Pills, each containing ½ gr. of Calomel	6*d.*	4/6
ANTIBILIOUS.		
62 Hydrarg. Pil. gr. i.; Ext. Coloc. Co.; Pil. Rhei Co. aa. gr. ij.	1/-	8/6
262 Podophyllin gr. ss.; Ext. Coloc. Co. gr. ij.; Ext. Hyoscy. gr. i.	1/2	10/-
COUGH.		
164 Pulv. Ipecac. Co.; Pulv. Gum. Ammon. aa. gr. iss.; Pulv. Scillæ gr. i.; Saponis Hyspan. gr. ss.	7*d.*	5/-
167 Pulv. Ipecac.; Pulv. Scillæ aa. gr. ¼; Pulv. Capsici; Pulv. Opii aa. gr. ½; Pulv. Gum. Ammon.; Ext. Conii aa. gr. i.	8*d.*	5/6
CASTOR OIL.		
289 Rhei Pulv.; Potass. Sulph. aa. gr. iss.; Pulv. Sapo. Hysp.; Ol. Ricini aa. gr. ss.; Ol. Crotonis gr. 1/16	6*d.*	4/-
TONIC. 370 (*Blaud's Formula*)	6*d.*	4/-
371 (*Blaud's Formula, Martindale's improved*)	6*d.*	4/-
"LITTLE" APERIENT. 458	5*d.*	20/-
"LITTLE" ANTIBILIOUS. 462	5*d.*	20/-

Samples of the above with our Complete List sent on application.

In ordering, please note Address, and see that the Label on each Bottle or Tin corresponds with the above Block. [1]

LEICESTER
PEARL COATED PILLS

"**LEICESTER** may be regarded as the Headquarters of the Pill Industry in England."—*Chemist and Druggist*, January 30, 1892.

"The manufacture of these Pills on a grand scale has been reserved for **LEICESTER,** where it has been cultivated for over twenty years."—*Manufacturing Chemist*, April 22, 1893.

"**MR. T. HOWARD LLOYD** has been associated with the **LEICESTER** industry for more than twenty years."—*Chemist and Druggist*, January 30, 1892.

"**MR. LLOYD** was for eighteen years a partner in the firm of JOHN RICHARDSON & CO., when he personally introduced the Pearl Coated Pills to **LEICESTER**; and as he had during all this time practical experience of pill-making, he may be said to have been at it for twenty years."—*Manufacturing Chemist*, April 22, 1893.

The *Lancet*, April 9, 1892:—"The coating gradually disintegrates in flakes even when placed in cold water."

The *British Medical Journal*, February 13, 1892:—"The Pearl Coated Pills prepared by Messrs. T. Howard Lloyd & Co. possess a very elegant and finished appearance."

T. HOWARD LLOYD & CO.

Wholesale Druggists and Manufacturing Chemists,

86 HIGH STREET, LEICESTER.

CHLOROFORM

CHLOROFORM (DUNCAN'S S.G. 1·490) NON-DECOMPOSABLE

This contains about 1 per cent. Absolute Alcohol, but in other respects is identical with our ordinary make (S.G. 1·497). While this minute proportion of Alcohol in no way affects its anæsthetic power, it renders the Chloroform PRACTICALLY NON-DECOMPOSABLE.

N.B.—We are now bringing this Chloroform prominently before the Medical Profession, but we continue to send out Sp. Gr. 1·497 where Sp. Gr. 1·490 is not specially ordered. We recommend the latter for export, particularly to warm climates.

SYRUP. HYPOPHOS. COMP.

(DUNCAN'S).

Some time since we had several samples of well-known **SYRUP. HYPOPHOS. COMP.** analysed by Mr. D. B. Dott, F.R.S.E., F.I.C., Ph.C., and in no one case did he find so large a proportion of the active constituents as is found in our preparation **by a precisely similar analysis**—which analysis is an absolute proof that the proportions of the different ingredients which we state are in our Syrup **are actually present.** We, therefore, submit that from the use of our Syrup the best results may be confidently anticipated. In proof of our statements we subjoin the report of Analysis referred to—

Analysis of SYRUP. HYPOPHOS. COMP. (grains per drachm.)

	DUNCAN'S	No. 1	No. 2	No. 3	No. 4
Hypophosphite of Quinine ...	·25	·14	·11	·69	·12
„ Iron ...	·77	·72	·10	·28	·15
„ Manganese...	·27	·22	·00	·16	·08
„ Calcium ...	1·04	·00	·83	·01	·15
„ Potassium ...	1·00	·63	1·48	·24	·29
„ Sodium ...	1.53	1·45	1·54	·29	·29
The quantity of Strychnine present was not determined. Our Syrup contains $\frac{1}{100}$ grain in each fluid drachm.					

"The presence of all the constituents in the last preparation (Compound Syrup of the Hypophosphites) was confirmed by qualitative analysis. The Syrup is neutral to test paper, and is not disagreeable in taste."—The Lancet, *May 23rd*, 1891.

The above may be ordered through any Wholesale or Retail Druggist. The Capsules and Syrup are sold and dispensed by Messrs. ROBERTS & CO., 76 New Bond Street, LONDON, W.
Wholesale from WM. EDWARDS & SON, 157 Queen Victoria Street, LONDON, E.C.

DUNCAN, FLOCKHART & CO., MANUFACTURING CHEMISTS, EDINBURGH.

GELATINE CAPSULES

500 VARIETIES.

BLAUD'S PILL CAPSULES—Equivalent to 1, 2 and 3 Pills. Always unoxidised, uniform in appearance, and effective in action.

CASCARA CAPSULES

EASTON'S SYRUP CAPSULES

GREGORY'S POWDER CAPSULES

"KERATINOIDS"

OR

INTESTINAL CAPSULES

SOLUBLE IN ALKALI, INSOLUBLE IN ACID,

For the administration of Drugs desired to act in the Duodenum, but not in the Stomach. Nearly every variety of Capsules (see above 500 varieties) may be had in this form—*e.g.*, Ox-Bile, Taurocholate of Soda, &c., &c.

"PLASTIC" PILLS

GELATINE COATED, SOFT GRANULAR MASS, CAN BE MOULDED BETWEEN THE FINGERS, NEVER LOSE THEIR SHAPE

BLAUD'S PLASTIC PILLS, 1, 2, or 3 Pill size. Like the Blaud's Pill Capsules these remain permanently in the Ferrous condition, never become hard, and are most reliable.

CACHET PILLS

Contain the ingredients in the state of powder, and are very rapid in their action.

SAMPLES AND LISTS OF ABOVE ON APPLICATION.

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Wholesale from WM. EDWARDS & SON, 157 Queen Victoria Street, LONDON, E.C.

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MANUFACTURING CHEMISTS.

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CONCENTRATED LIQUORS

SOLID AND LIQUID EXTRACTS, B.P. & U.S.P.,

And all Pharmaceutical Preparations.

OL. LAVAND. "Special."

ESS. LIMONIS. "Special"
1893.
(Imported direct from Sicily.)



PERFUMES. "Special."

SYR. HYPOPHOSPH. CO.
(Neutral and Bright).

Finest Non-Freezing Norwegian Cod-liver Oil (1893). Tasteless Castor Oil. English and Foreign Essential Oils. Extract of Malt and Extract of Malt and Cod-liver Oil. In 8-oz. and 16-oz. Amber Bottles with Artistic Labels.

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SPECIAL QUOTATIONS TO LARGE BUYERS.

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And NEW BROWN STREET MANCHESTER.

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THOMAS TYRER & CO.

STIRLING CHEMICAL WORKS, ABBEY LANE, STRATFORD, LONDON, E.

ESTABLISHED 1844.

Sole Manufacturers of the Patent Disinfectant

THIOCAMF

Professor REYNOLDS says :—"There is no other material that I know of save Thiocamf which can give off so large a relative volume of sulphur-dioxide gas (the contents of a small six-ounce bottle can afford over 20,000 cubic centimetres) without any special treatment, save exposure in a very thin layer on an old tray or dish to the air of the room to be disinfected. Further, one ounce of Thiocamf shaken up with a quart of water forms a powerful disinfectant for ordinary purposes, such as sprinkling over various matters, purifying drains, &c.; while a still more dilute solution (one ounce to a gallon) can be used for soaking clothes which have been in contact with infected persons."

HYDROGEN PEROXIDE { 20, 30, 40 Vols., &c., for all purposes.

AMMONIUM. AMYL. BARIUM. IRON. } ACETATES { LEAD. POTASSIUM. SODIUM. ZINC.

PYROXYLIN PURE AND METHYLATED COLLODION ETHERS.

MERCURIALS.

CALOMEL. RED OXIDE. PILL. } PURE { SUBLIMATE. WHITE PRECIPITATE. OINTMENT.

AND ANY OTHER REQUIRED MERCURIAL PREPARATION.

GRANULAR EFFERVESCENT PREPARATIONS.

PHOSPHORIC ACID,

DIL., CONC., SYRUPY, & GLACIAL. Free from Arsenic, Lead, &c.

IRON AMMON CITRATE BISMUTH AMMON CIT. IRON CITRATE TRUE } SCALE PREPARATIONS. { IRON POTASS. TART. QUININE AND IRON CIT. STRYCHNINE CITRATE

Spirit Nitrous Ether, B.P., and Aromatic Ammonia, Guaranteed.

Fruit Essences, &c., also in Bond.

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HAWLEY'S COUNTER ADJUNCTS.

With Chemist's own Name and Address printed free for 3 dozen.

"The Counter Adjunct," a monthly leaflet of novelties in Materia Medica and Adjuncts, post free on application.



FIG. 2.

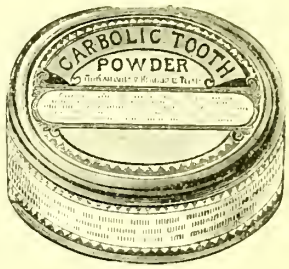


FIG. 4.

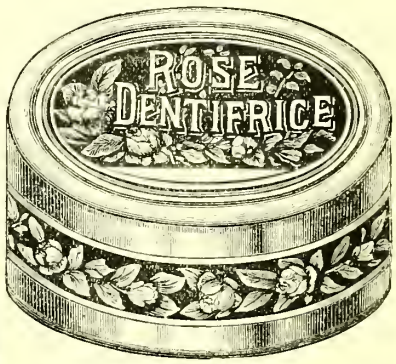


FIG. 3.



FIG. 1.

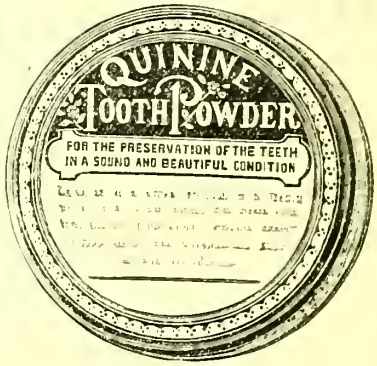


FIG. 5.

EUCALYPTUS TOOTH POWDER.

CAMPHORATED CHALK.

ROSE DENTIFRICE.

CARBOLIC TOOTH POWDER.

QUININE TOOTH POWDER.

FIG. 1.—**Style.**—In elegant dark green metal boxes, with label and band, both bearing a true representation of the Eucalyptus: with the fragrance of E. amygdalina or E. citriodora, as preferred.
Price.—1*s.* size, 7*s.* dozen; 6 dozen, 6*s.* 6*d.* 6*d.* size, 3*s.* 9*d.* dozen; 6 dozen, 3*s* 6*d.*

FIG. 2.—**Style.**—In lacquered metal box, with an artistic and attractive label and band, as woodcut above.
Price.—4*s.* dozen; 6 dozen, 3*s.* 9*d.* dozen.

FIG. 3.—Prepared according to an approved formula, and delicately perfumed with Otto of Roses. Highly recommended to those who prefer an unsweetened Dentifrice. **Style.**—In an attractive silver-coloured metal box, with elegant label in colours, and band to match. In 2 sizes.
Price.—6*d.* size, 3*s.* 9*d.* dozen; 6 dozen, 3*s.* 6*d.* 1*s.* size, 7*s.* dozen; 6 dozen, 6*s.* 6*d.*

FIG. 4.—The taste of the acid is masked and delicately perfumed with Otto of Roses. Carbolic acid in a proper state of dilution is an excellent ingredient in tooth powders. **Style.**—Shouldered gold-coloured tins bearing band and label, for Chemist's name and address. Each half-dozen in a card outer.
Price.—6*d.* size, 3*s.* 9*d.*; 6 doz., 3*s.* 6*d.* per doz. 1*s.* size, 7*s.*; 6 doz, 6*s.* 6*d.* per doz.

FIG. 5.—It is creamy white in colour, nicely perfumed, and contains sufficient Quinine to impart to it a pleasant bitterness.
Price.—6*d.* size, 3*s.* 9*d.*; 6 dozen, 3*s.* 6*d.* per dozen. 1*s.* size, 7*s.*; 6 dozen, 6*s.* 6*d.* per dozen.

EVANS, LESCHER & WEBB,

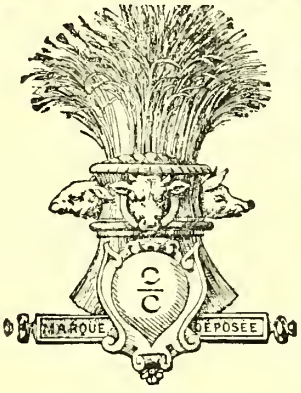
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CALCUTTA, 1883.—1st Class Certificate and Gold Medal.
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We would draw the attention of Chemists and Druggists to the fact that a good Pepsin must not only **dissolve, but digest—i.e., Peptonise.** Our Pepsins answer entirely to the requirements of the French Pharmacopœia, which requires from Pepsin the complete PEPTONISATION of the albuminous substance (fibrine).

OUR PRODUCTS C/C ARE QUOTED AS FOLLOWS:—

Extract—Pepsin	(*French Pharmacopœia*) standard	50	26/6	per lb. net.
idem	... ... „	30	13/6	„
Amylaceous Pepsin	(*French Pharmacopœia*) „	20	11/	„
idem	... ... „	6	4/9	„
Pepsin in Scales	... ... „	100	49/5	„
idem	... ... „	30	17/	„
Pepsin Powder Solub.	... ... „	30	12/	„
Granul. Pepsin	... ... „	30	13/6	„
Liquid Pepsin	... ... „	25	123/	per gall. net.
Pancreatin	... ... „	20	16/9	per lb. net.
Dry Beef Peptone C/C	... ... „	—	12/	„

For the above Products, UNSTAMPED, an extra discount of 5 per cent. on the net prices is allowed.

Quality and Standards warranted. Pepsin of all Standards manufactured. Prices according to Standards. Orders amounting to £10 or more delivered free of charges and packing at London. For very important contracts special prices will be quoted.

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Who will give prompt attention to all applications for Samples.

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"STANDARD OF QUALITY."

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ESTABLISHED 1798.

OILS BAY, CARAWAY, CLOVES, CUBEBS, PEPPERMINT, SANDAL SASSAFRAS, SPEARMINT, TANSY, WINTERGREEN, WORMWOOD AND MANY OTHERS.

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FROM ABSOLUTELY DUTY-FREE SPIRIT.

PLEASE NOTE, that all my Tinctures and Preparations are manufactured strictly in accordance with the **British Pharmacopœia,** and that only the **purest Spirit** and **Drugs** are employed.

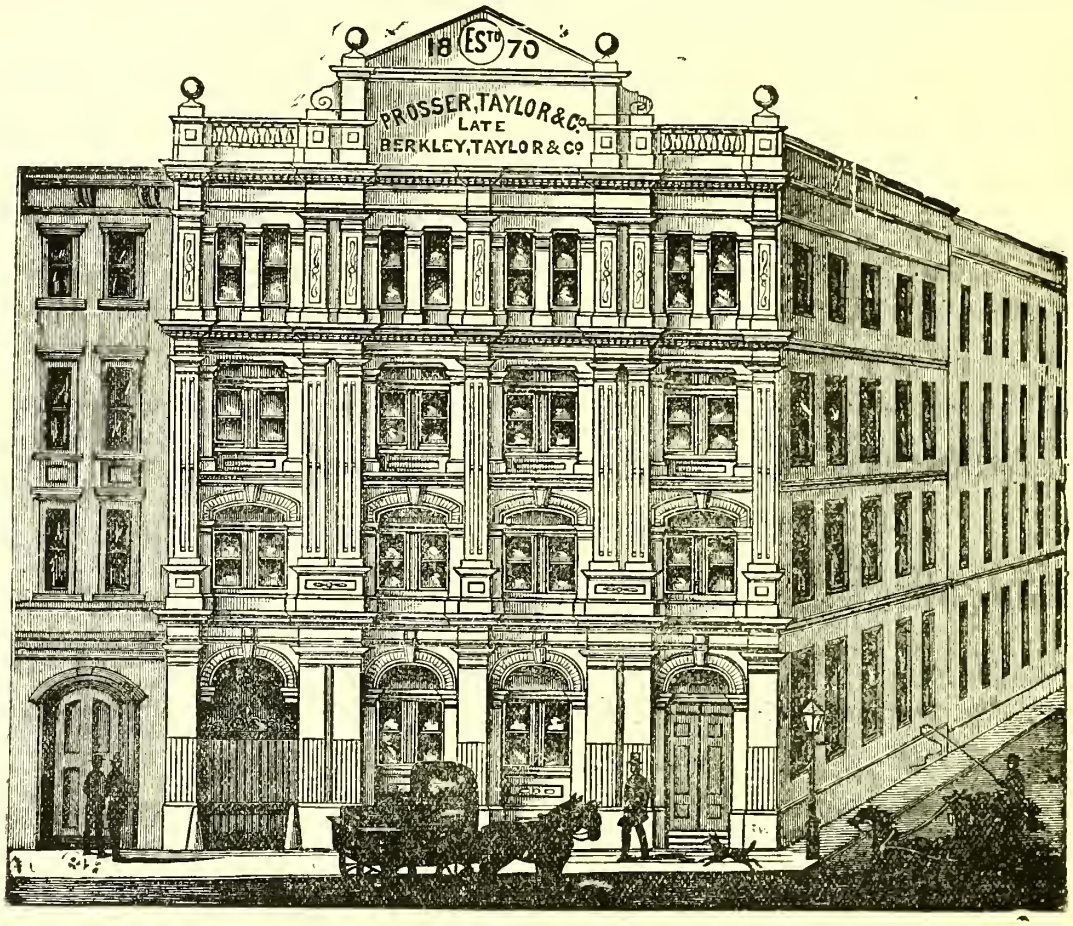
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A Century

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ESTABLISHED 1793. INCORPORATED 1891. CENTENARY 1893.

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LISTERINE.

NON-TOXIC NON-IRRITANT, NON-ESCHAROTIC—ABSOLUTELY SAFE, AGREEABLE, AND CONVENIENT.

FORMULA.—LISTERINE is the essential antiseptic constituent of Thyme, Eucalyptus, Baptisia, Gaultheria and Mentha Arvensis, in combination. Each fluid drachm also contains two grains of refined and purified Benzo-boracic Acid.

DOSE.—Internally: One teaspoonful three or more times a day (as indicated), either full strength, or diluted, as necessary for varied conditions.

LISTERINE is a well-proven antiseptic agent—an antizymotic—especially useful in the management of catarrhal conditions of the mucous membrane, adapted to internal use and to make and maintain surgical cleanliness—asepsis—in the treatment of all parts of the human body, whether by spray, injection, irrigation, atomization, inhalation, or simple local application, and therefore characterized by its particular adaptability to the field of

PREVENTIVE MEDICINE—INDIVIDUAL PROPHYLAXIS.

LISTERINE destroys promptly all odours emanating from diseased gums and teeth. It is a perfect tooth and mouth wash, Indispensable for the Dental Toilet.

DISEASES OF THE URIC ACID DIATHESIS. **Lambert's Lithiated Hydrangea.** RENAL ALTERATIVE—ANTI-LITHIC.

FORMULA.—Each fluid drachm of "LITHIATED HYDRANGEA" represents thirty grains of FRESH HYDRANGEA, and three grains of CHEMICALLY PURE Benzo-Salicylate of Lithia. Prepared by our improved process of osmosis. It is INVARIABLY of DEFINITE and UNIFORM therapeutic strength, and hence can be depended upon in clinical practice.

DOSE.—One or two teaspoonfuls four times a day (preferably between meals).

Close Clinical observation has caused LAMBERT'S LITHIATED HYDRANGEA to be regarded by physicians generally as a very valuable Kidney Alterative and Anti-lithic agent in the treatment of

Urinary Calculus, Gout, Rheumatism, Cystitis, Diabetes, Hæmaturia, Bright's Disease, Albuminuria, and Vesical Irritations generally.

REALIZING that in many of the diseases in which LAMBERT'S LITHIATED HYDRANGEA has been found to possess great therapeutic value it is of the highest importance that suitable diet be employed. We have had prepared for the convenience of physicians

DIETETIC NOTES,

suggesting the articles of food to be allowed or prohibited in several of these diseases. A book of these Dietetic Notes, each note perforated and convenient for the physician to detach and distribute to patients, supplied, upon request, together with literature fully descriptive of LISTERINE and LAMBERT'S LITHIATED HYDRANGEA.

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MANUFACTURERS OF

SULPHATE OF QUININE, B. and S. Brand, and all other Cinchona preparations, also of ACETANILID, CAFFEINE, COCAINE, CHLORALHYDRAT, CUMARIN, GALLIC ACID, GLYCERINE, HELIOTROPIN, SALICYLIC ACID and SALICYLATES, STRYCHNINE, TERPIN HYDRAT, &c.

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The New Improved and Perfected Style. White and Odourless.

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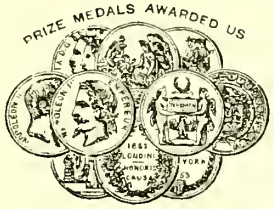
1/ size	...	...	...	...	...	Per dozen,	10/-	...	...	...	...	Per gross,	105/- net.
2- ,,	...	...	...	...	...	,,	20/-	...	...	...	...	,,	210/- ,,
5/- ,,	...	...	...	...	...	,,	50/-	...	...	...	...	,,	525/- ,,

PUMILINE.

Essence	1/6	...	...	Per dozen,	15/-,	less	10	per cent.	Liniment	1/9	...	...	Per dozen, 20/-, less 10 per cent.
,,	2/6	...	...	,,	24/-	,,	10	,,	Jujubes	1/1	...	...	,, 10/6 ,, 5 ,,
Extract	1/-	...	...	,,	9/-	,,	10	,,	,,	2/3	...	...	,, 20/- ,, 5 ,,
Ointment	1/1½	...	...	,,	11/-	,,	10	,,	Dry Inhalers, complete				1/6 ,, 14/- ,, 10 ,,
,,	2/9	...	...	,,	27/-	,,	10	,,					

G. & G. STERN, 62 Gray's Inn Road, LONDON, W.C.

T. & H. SMITH & CO.



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SALTS OF MORPHIA

TO WHOM AT THE UNIVERSAL EXHIBITION IN PARIS, 1878,

THE GOLD MEDAL WAS AWARDED.

ALSO MANUFACTURERS OF

CHLOROFORM, PURE B.P.

ANSWERING ALL THE RECOGNISED TESTS.

ALOIN.	**CODEINE.**	**GINGERINE.**
ERGOTINE.	**CANTHARIDINE.**	**CAPSICINE.**
SALICINE.	**JALAPINE.**	**SCAMMON. RESIN.**

EXTRACT. FILICIS LIQUIDUM,

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SPIRITUOUS PREPARATIONS IN BOND,

SUCH AS

SPT. ETHER. NIT.	TINCTURES.	LINIMENTS.
SPT. AMMON. AROM.	FLUID EXTRACTS.	INFUSIONS.

DECOCTIONS, &c.

All of ENGLISH MANUFACTURE and guaranteed B.P. strength.

IMPORTERS ARE RESPECTFULLY SOLICITED TO SEND US TRIAL INDENTS.

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AND

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3	,, ALOES ET FERRI ..	0 7½	0 6½	0 5½
6	,, ASAFŒTIDÆ CO. ..	0 9	0 8	0 7
8	,, COLOCYNTH CO. ..	0 11	0 10	0 9
9	,, COLOCYNTH ET HYOS. .	1 0	0 11	0 10
11	,, FERRI CARB.	0 7	0 6	0 5
13	,, HYDRARG.	0 7½	0 6½	0 5½
27	,, RHEI CO.	0 7½	0 6½	0 5½
	ANTIBILIOUS.			
129	PIL. HYDRARG., gr. i. .. .. Ext. Coloc. Co., gr. ij. .. .. ,, Hyoscy., gr. i.	1 0	0 11	0 10
130	PIL. HYDRARG., gr. i. .. .. ,, Rhei Co., gr. iv.	0 8	0 7	0 6
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46	as 45, with 1 gr. Calomel ..	0 9	0 8	0 7
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333	ALOES BARB., gr. iss. .. .. Jalapæ, gr. i. .. .. .. Coloc., gr. i... .. .. .. Cambogiæ, gr. 1-4th .. .. Saponis, gr. ss. .. .. .. Ol. Carui, gtt. 1-4th	0 7	0 6	0 5

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533	c. Calomel, gr. ½	0 7	0 6	0 5
	,, ,, gr. 1	0 7	0 6	0 5
361	PIL. APER. (HOSPITAL). ℞ Ext. Aloes Aq., gr. ij. .. .. Pulv. Cambog., gr. ss. .. .. ,, Jalap, gr. i. .. .. .. ,, Colocynth .. .. .. Calomel .. .. Pulv. Saponis, aa. gr. ss. .. Ol. M. Pip., ℥ 1-16th .. .. ,, Caryoph, ℥ 1-8th	0 9	0 8	0 7
	QUINÆ SULPH., B.P.			
203	gr. ½	0 6½	0 5½	0 4½
204	gr. i.	0 7½	0 6½	0 5½
205	gr. ij.	0 11	0 10	0 9
206	gr. iij.	1 3	1 2	1 1
	CASCARA SAGRADA EXT.			
70	EXT. CASCARA SAGRADA, gr. ij.	0 8	0 7	0 6
431	EXT. CASCARA SAGRADA, gr. iij.	0 11	0 10	0 9
98	ERGOTIN .. .. Ferri Sulph. Exsic. .. .. Ext. Hellebor. .. .. .. ,, Aloes Soc., aa. gr. i. .. Ol. Sabinæ, gtt. ss.	1 2	1 1	1 0
	OPIUM, PULV.			
981	PULV. OPII, gr. ½	0 8	0 7	0 6
162	,, ,, gr. ss.	0 10	0 9	0 8
163	,, ,, gr. i.	0 11	0 10	0 9
988	,, ,, gr. ij...	1 2	1 1	1 0
	RHEI PIL.			
1198	PIL. RHEI CO. (P. L.), gr. iv. ..	0 7½	0 6½	0 5½
1199	,, ... ,, ,, gr. v...	0 7½	0 6½	0 5½

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217	PULV. RHEI. .. .. Potass. Sulph., aa. gr. iss. .. Pulv. Sapo. Hysp., gr. ss. .. Ol. Ricini. ℥ gr. ss. .. .. ,, Croton., ℥ gr. 1-16th ..	0 8	0 7	0 6
	THE "LITTLE" PILL			
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400	JALAPIN, gr. 1-16th .. .. Aloin, gr. 1-8th .. .. .. Leptandrin, gr. 1-16th .. .. Podophyllin, gr. 1-8th .. .. Pulv. Cambog., gr. 1-32nd .. Ext. Hyoscy., gr. 1-8th .. .. Capsicine, gr. 1-64th	7	0 6	0 5
	"LITTLE" APERIENT.			
68	ALOIN, gr. 1-10th .. .. .. Podophyllin, gr. 1-5th .. .. Ext. Hyoscy., gr. 1-20th. .. Jalapin, gr. 1-10th. .. .. .. Ext. Nuc. Vom. .. .. .. Capsicine, aa. gr. 1-20th. ..	0 7		5
	"LITTLE" COUCH.			
412	MORPH. HYDROCHLOR. gr. 1-8th .. .. Pulv. Scillæ .. .. ,, Ipecac., aa. gr. 1-12th Bals. Tolu, gr. 1-4th	0 7	0 6	0 5
	"LITTLE" LIVER.			
410	PODOPHYLLIN, gr. 1-4th .. Ext. Cascara, gr. 3-4ths .. .. Capsicine, gr. 1-20th	0 7	0 6	0 5
	"LITTLE" CATHARTIC.			
388	HYDRARG. SUBCHLOR. .. .. Jalapin, aa. gr. ss...	0 10	0 9	0 8

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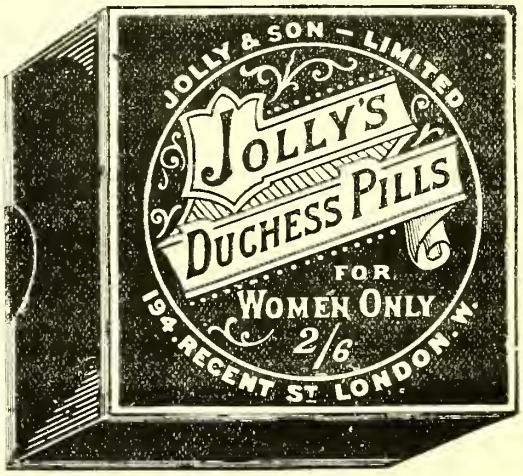
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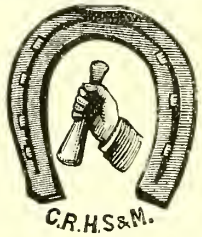
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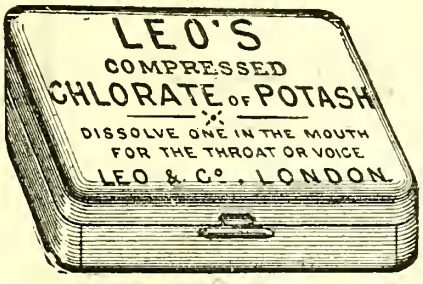
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Essential Oils, Perfumed Oils, Pomatums, Floral Waters, Olive Oils.

LONDON AGENTS—
BRUMMERSTAEDT & LÜDERS,
60 MARK LANE, E.C.

J. ROBBINS & Co 147 OXFORD ST

METHYLENE
Obtained by the action of Metallic Zinc on Chloroform and Alcohol.
Discovered to be a general Anæsthetic by Dr. RICHARDSON in 1867.
1-lb. Stoppered Bottle, 12s.; ½-lb., 6s. 6d.; 4-oz., 3s. 6d.; 2-oz., 2s.

COMPOUND ANÆSTHETIC ETHER,
For producing Local Anæsthesia.
In 4-oz., 10-oz., and 20-oz. Stoppered Bottles, 2s., 4s., and 7s.

OZONIC ETHER,
In 1-oz., 4-oz., 8-oz., and 16-oz. Stoppered Bottles, 2s., 3s. 6d., 7s., and 12s.

PEROXIDE OF HYDROGEN,
First introduced as a Medicine by Dr. RICHARDSON.

ETHYLATE OF SODIUM
Dr. RICHARDSON'S Formula, for removing Nævi, &c. In ½-oz. & 1-oz. Bottles, with elongated Stoppers for applying the Caustic, 2s. 6d. & 4s.

STYPTIC COLLOID,
For promoting the Healing of Wounds by the first intention.
In 2-oz. and 4-oz. Bottles, with Brush, 2s. 6d. and 4s. 6d.; 16-oz., 12s.

CHARCOAL CAPSULES,
Containing Pure Vegetable Ivory Charcoal.
In Boxes, 2s. 6d. each.

J. ROBBINS & Co OXFORD ST 147

CRESCENT 

BRAND.

BICARBONATE OF SODA,

REFINED AND RECRYSTALLIZED.

PURE AND CHEAP.

ANALYSIS.

Bicarbonate of Soda	97·20
Mono Carbonate of Soda	1·90
Sulphate of Soda	trace
Chloride of Sodium	·035
Moisture	·82
Insoluble	nil

PURE ALKALI,

GUARANTEED 58 DEGREES.

EQUAL TO 98 PER CENT. OF CARBONATE OF SODA.

Most economical form of Soda for the use of Printers, Bleachers, Dyers; Glass, Paper, and Soap Makers.

CONCENTRATED CRYSTAL SODA

(Sesqui-Carbonate).

By far the Purest and Cheapest form of WASHING SODA.

Only 1 lb. of Concentrated Crystal Soda required to do the work of 2 lbs. of Washing Soda.

SODA CRYSTALS

OF THE FINEST QUALITY.

Also BLEACHING POWDER.

BRUNNER, MOND & CO., LIM.

Manufacturers of Soda by the Ammonia Process,

NORTHWICH, CHESHIRE.

MODERN PHARMACY.

THE PROGRESSIVE.

THE EXACT.

THE TIME-SAVING.

THE MONEY-MAKING.

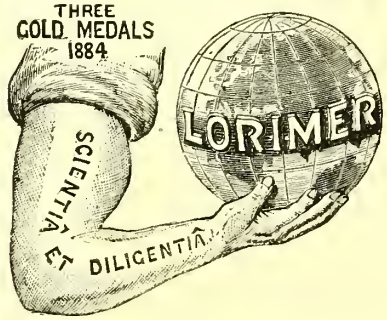
These are the factors which make for success, nowadays. Competition is keen, assistants require higher wages, and the pharmacist cannot afford, as in the old days, to have a spare hand or two.

It pays no longer to "fill up spare time" (misleading phrase) by manufacturing from a half-pint to a quart of a tincture, or to put up a few dozen bottles of Castor Oil or Parrish's Syrup. The time of skilled and certificated assistants is too expensive to throw away on such work. It can be done, under adequate supervision, by expert women.

Fifteen years ago Lorimer & Co. recognised that these views (then but little countenanced) would come to the front. They believed that the new order of business, then influencing all departments of trade, would also affect the more professional calling of pharmacy.

It has all so happened. Pharmacists find that it does not pay them to make syrups, tinctures, and a whole host of preparations. They can buy cheaper, and by their skill and knowledge ascertain and prove that the articles are of "the nature, substance and quality demanded." The same applies, but even more forcibly, in regard to put-up goods.

A glance at Lorimer & Co.'s list, which follows this page, will show any one who knows the business that everything there is quoted at bottom prices. To that we desire to add that the quality of the goods, the artistic taste in packing, the style of the packages, are all THE BEST POSSIBLE. EXAMINE IT WELL AND MAKE UP A SAMPLE ORDER.



LORIMER & CO., BRITANNIA ROW, LONDON, N.

LORIMER'S PEPSINE SAUCE



Why don't you try my Husband's favorite remedy for indigestion? PEPSINE SAUCE!
Not much the matter with him now! is there?

Prepared by
LORIMER & Co
Britannia Row,
LONDON, N.

TIC STATIONERY CO., LITHO., LONDON, E.C.



PEPSINE TABLE SALT.

1s. bottles

4s. 6d. doz.

This Salt is in fine white powder. It contains a large proportion of strongest Pepsine, and is quite free from smell.

BUYER'S NAME ON THREE DOZEN.

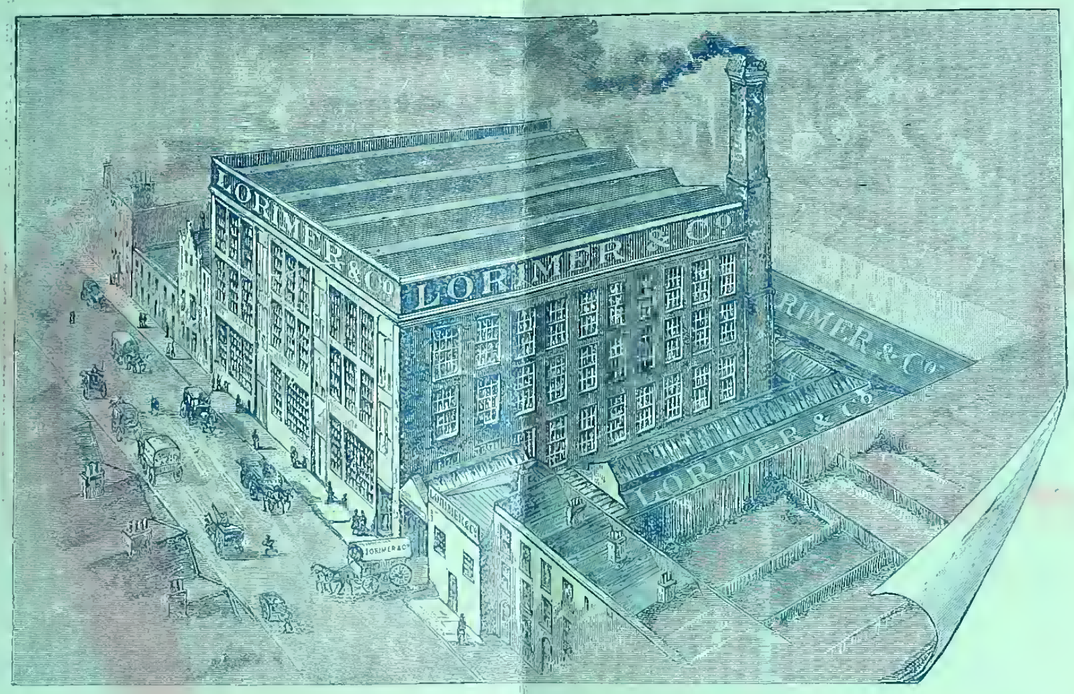


CONCENTRATED ESSENCE OF RENNET.

This Essence is the strongest obtainable, free from Salt. *Keeps under any condition*, and gives general satisfaction.

¼-pint bottles ... 3/6 doz.
½-pint ,, ... 6/6 ,,
1-pint ,, ... 11/- ,,

CHEMIST'S NAME ON SIX DOZEN, ASSORTED.



We have had extensive experience in the manufacture of Pepsine and preparations, and quote as under:—

PEPSINA P.B.	... ...	18/0 lb.; 1-oz. Bottles 1/8 each.
,, ,, PORCI PUR ...	... ...	32/0 lb.; 1-oz. ,, 2/4 ,,
,, LORIMER'S	... ...	4/6 oz. This 50 times strength of P.B.
LIQUOR PEPTICUS pro Vino	... ...	3/0 lb.
,, PEPSINÆ et EUONYMI	... ...	3/0 lb.

PEPSINE WINE.

This is specially prepared to meet the requirements of the Inland Revenue Department, and may be sold without a licence or medicine stamps. Dose—A teaspoonful.

2	4	8 oz. bottles.
5/0	9/0	17/0 doz.

Chemist's Name on label with three dozen, assorted sizes.

GLYCERINUM PEPSINÆ ACIDUM.

Acid Glycerine of Pepsine.

Each fluid drachm equals six grains Pepsina P.B. It is not so acid as those usually sold.

In Bulk	3/0 lb.
4-oz. Round Stop. Bottles	13/0 doz.
8-oz. ,, ,, ,, ...	25/0 ,,

Chemist's name with one dozen bottles, assorted.

AWARDED SIX GOLD AND PRIZE MEDALS, 1884.

THE ONLY YEAR WE HAVE EXHIBITED.



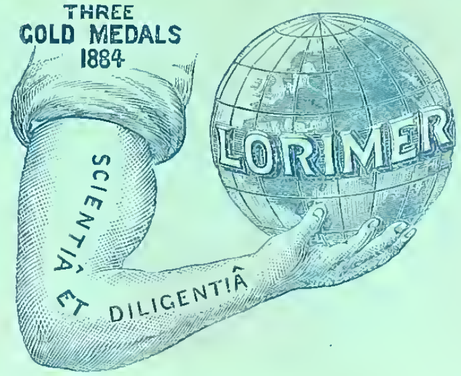
LORIMER'S (REGISTERED) PEPSINE SAUCE.



THE MOST DELICIOUS SAUCE OBTAINABLE.

In Bottles, 4s. 6d. and 8s. 6d. per doz.

TRADE



MARK.

In addition to the usual ingredients of a first-class Sauce, it contains pure Pepsine, and has been spoken of in terms of the highest praise by the most eminent medical authorities.

It has an enormous sale, and only requires showing, in fact no other preparation of Pepsine has "a look in with it."

MOREOVER, IT YIELDS A GOOD PROFIT.

FAC-SIMILE OF THIS SHOW CARD, MOUNTED, SENT ON APPLICATION.

TELEGRAPHIC ADDRESS: "CALISAYIN, LONDON."
TELEPHONE, 7524.

BRITANNIA ROW, ISLINGTON,
LONDON, N.

July, 1893.

TO THE TRADE.

Gentlemen,

It affords us much gratification to be able to address a few words to you through the summer number of the "C. & D." In 1881 we originated the system of supplying Drugs and Specialities of known and approved formula for the Chemist's counter, elegantly put up, bearing his name only. We then ventured to predict that this system would eventually supersede, in a large measure, the old plan of buying in bulk, and that those who adopted it would be the successful traders of the future.

This prediction is now fairly realised. In 1888 the "Chemist and Druggist" found that our "*products, which were at first turned out on a small scale, were then being manufactured by the ton, and packed and sold in bewildering quantities;*" these quantities have steadily increased year by year, and our Specialities are now a recognised necessity in every well-ordered Modern Pharmacy at home and in the Colonies, while our wholesale brethren, who used to slander, are following our lead with break-neck speed.

We invite your kind perusal of the following pages, on which we quote a few of these Specialities, and recommend them as goods eminently calculated to increase your returns and profits. They are of the highest possible quality, got up in best and most elegant styles, in many instances regardless of cost; the prices will show you a decided advantage over bulk goods; they will reach you too, bearing your own name only if preferred, and command a ready and profitable sale. We do not confine ourselves to these goods, but supply all Drugs, Pharmaceutical and Galenical preparations at current prices.

One small item of which it may interest you to know, viz., that during June of this year we shipped for export and claimed drawback on no less than 10,608 bottles of Tinctures and Spirituous preparations, all manufactured in our own Laboratories from finest English Grain Spirit, and we ask the attention of Colonial buyers to our quotations for these goods.

We tender you our sincerest thanks for past favours, and hope "Scientiâ et diligentiâ" to merit and receive a continuance of same.

We remain, Gentlemen,

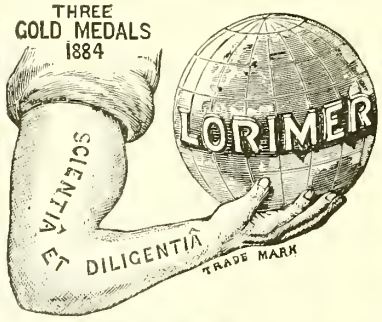
Always at your Service,

LORIMER & Co.



TRADE MARK.

PRINTERS: SIR JOSEPH CAUSTON & SONS, LONDON.



EXTRACT OF MALT

Prepared *in Vacuo* in our own Laboratories below 120° Fahr., from the finest Malted Barley, and warranted to keep good in any climate.

PRICES IN BULK:

lb. 9d., 28 lbs. 8d., tins free

cwt. in casks or churns, charged and returnable } **46/8**

14 28 56 lb., Tins Free

50/- 48/- 47/- cwt.

In Half-Pound Bottles.

Doz. **6/-**, Gross **66/-**

In One Pound Bottles.

Doz. **10/-**, Gross **96/-**

Style.—Bottles are fine quality, dark amber, with very wide mouths, usual flat shape.

Labels.—A bold type label in two colours, with buyer's name if preferred.

Cartons.—*Plain*, with type labels and band across top, with buyer's name, are **6d.** doz. extra.

Cartons.—*Elegantly engraved* or *Litho*, are supplied with orders for 2 gross, each size, at **1/6** per doz. extra, or with smaller quantities at cost price of the Cartons.

Bearing OUR OWN Labels:

"THE LORIMER EXTRACT."

½ lb. bots., doz. **8/-**
1 lb. ,, ,, **14/-** } 5% Dis.

In the usual style of Bottles, with tinted cardboard case, elegant labels, and abundance of handbills.

EXTRACT OF MALT WITH COD LIVER OIL.

In Bulk, lb. **10d.**, 28 lb. **9d.**, cwt. **56/-**, Tins Free.

In ½ lb. Bottles, doz. **7/-**, gross **72/-** | In 1 lb. Bottles, doz. **13/-**, gross **102/-**

Style, Labels, Cartons, &c., as for Malt Extract.

EXTRACT OF MALT WITH HYPOPHOSPHITES (LORIMER).

This preparation, first introduced by us, combines the virtues of the Hypophosphites with those of Extract of Malt. It has been found to be particularly efficacious in the treatment of Rickets, &c. Each dessert-spoonful contains two grains of the Hypophosphites.

Sold in 1-lb. Bottles, 16/- doz.

EXTRACT OF MALT WITH CREAM.

We prepare this by evaporating, *in vacuo*, New Milk, fresh from the cow, to the consistence of the Malt Extract. Equal volumes of this evaporated Milk and Malt Extract are contained in this preparation. It is a perfect and appetising food, easily assimilated, and promises to become an important addition to the Chemist's Stock.

STYLE, SIZES and PRICES same as "Lorimer's Malt Extract," quoted above.

Bulk in 28 lb. Tins, 10d. lb.

From "The Chemist and Druggist," January 28th.—"For some years Messrs. Lorimer & Co. having been building up a business in the manufacture and elegant presentation of put-up articles, more or less closely allied to pharmacy, they seem to have hit the mark when such things were particularly wanted and it must, no doubt, be admitted that they have met the want with skill and judgment, for their products, which were at first turned out on a small scale, are now manufactured by the ton and packed and sold in such bewildering quantities that they have been compelled to exchange their old premises in the Hargrave Park Road for much more spacious ones in Britannia Row, Islington.

"Obviously the stock of drugs and chemicals for all these preparations has to be a very extensive one, while the variety and the number of bottles and other enclosures is immense. We left the establishment with a considerably enhanced respect for the trade in put-up articles."

GRANULAR AND EFFERVESCENT PREPARATIONS,

OF OUR OWN MANUFACTURE,

Chemist's Name on all Labels if preferred.

SPECIAL NETT QUOTATIONS FOR WHOLESALE QUANTITIES. SMALL QUANTITIES AT USUAL LIST PRICES.

MAGNESIÆ CITRAS—

We specially recommend "Red Seal" for export.

ONE OF THE MANY UNSOLICITED TESTIMONIALS WE RECEIVE:

"90, WESTERN ROAD, BRIGHTON,
"*January* 14*th*, 1888.

"Messrs. LORIMER & Co.

"GENTLEMEN,—We have pleasure in informing you that, having tried the Citrate of Magnesia of all the makes that have been offered to us, taking Bishop's as a standard, we find yours to be the only one comparing favourably with the same, and that it quite equals, if not surpasses it.

"Yours truly,
"HEADLAND & CO., CHEMISTS."

EXTRA QUALITY, RED SEAL .. cwt.	80/-	5 cwt. 78/-		10 cwt. 76/-	
„ bots. included, doz.	1/-	¼ lb. 3/8	½ lb. 4/6	1 lb. 6/9	12/-
„ „ gross			48/-	78/-	138/-
FINE QUALITY, BLUE SEAL .. cwt.	71/-				
„ bots. included, doz.	1/-	¼ lb. 3/7	½ lb. 4/3	1 lb. 6/4	11/3
GOOD QUALITY, GREEN SEAL, cwt.	62/-	5 cwt. 60/-		10 cwt. 58/-	
„ bots. included, doz.	1/-	¼ lb. 3/3	½ lb. 4/-	1 lb. 6/-	10/-
„ „ gross			40/-	69/-	111/-

SHERBET, BEST PERSIAN.

Per cwt. 38/- In 1 and 2 lb. bots., doz. 6/6 and 12/6. In 1 and 2 lb. tins, doz. 6/- and 11/6.

GAZOGENE OR SELTZOGENE CHARGES.

Guaranteed correct weight, ENGLISH ACID free from lead, 12 charges in each box, no name on labels.

2	3	5	8	pint.
10/6	13/-	17/6	30/-	doz. boxes.

SEIDLITZ POWDERS, P.B.

Measured, in boxes of 12 powders .. .. .. 4/6 doz., 51/- gross.
Each powder weighed of 12 powders .. .. .. 5/- „ 56/- „

Guaranteed Howard's Soda Tart., and English Acid absolutely free from lead.

Handsomely Decorated Tin Boxes for Export, 9d. doz. extra.
A large variety of Fancy Labels and Wrappers, with space for Chemist's name, in gross lots, no extra charge.

GRANULAR EFFERVESCENT—		In Bottles, per doz. 4 oz.	8 oz.
„ ANTIPYRIN, 5 grains in 1 drachm	lb. 6/-	16/8	30/-
„ ANTIPYRIN AND CAFFEIN ..	„ 5/-	15/-	29/-
„ BROMIDE OF AMMONIUM ..	„ 2/6	6/-	13/-
„ „ SODIUM ..	„ 2/3	6/-	13/-
„ BISMUTH. AMMON.-CITR. ..	„ 3/-	8/-	15/-
„ „ PEPSINE & IRON .	„ 8/-	18/-	34/-
„ BROMO-CAFFEIN	„ 3/6	8/-	15/-
„ CAFFEIN CITRATE	„ 3/-	8/-	14/-
„ „ HYDROBROM	„ 4/-	9/-	17/-
„ CARLSBAD SALT	„ 2/6	5/-	11/-
„ CERIUM NITRATE	„ 3/6	8/-	15/-
„ CHEMICAL FOOD	„ 3/6	8/-	15/-
„ HYDROPHOSPHITES COMP.	„ 3/6	8/-	15/-
„ HUNYADI JANOS	„ 3/6	8/-	15/-
„ IRON AMMONIO-CITRATE..	„ 2/-	4/6	8/-
„ „ CARBONATE	„ 2/-	4/6	8/-
„ „ PHOSPHATE	„ 2/6	6/-	11/-
„ „ CITR. WITH QUININE	„ 3/6	8/-	15/-
„ KISSINGEN SALT	„ 2/6	6/-	11/-
„ LEMONADE (Lemon Kali) ..	„ 1/1	3/6	6/6
„ LITHIUM CARBONATE ..	„ 3/6	7/-	13/-
„ „ CITRATE	„ 3/6	7/-	13/-
„ MAGNESII SULPHAS, P.B. ..	„ 1/2	3/9	7/-
„ PHENACETIN (5 gr. to dram.) ..	„ 4/6	16/-	30/-
„ POTASH BICARBONATE ..	„ 2/-	4/6	8/-
„ „ BROMIDE	„ 2/6	6/-	11/-
„ „ CITRATE	„ 1/10	5/-	9/6
„ PULLNA SALT	„ 2/4	5/6	10/-
„ QUININE CITRATE	„ 3/-	8/-	15/-
„ „ SALICYLATE ..	„ 4/-	9/-	17/-
„ SALICINE	„ 4/-	9/-	17/-
„ SALICYLATE SODA	„ 3/-	8/-	15/-
„ SALINE APERIENT	„ 1/-	3/6	6/6
„ SEIDLITZ SALT P.B. ..	„ 1/6	4/-	7/-
„ SELTZER SALT	„ 2/4	5/6	10/-
„ SODIO-CITRO TART. ..	„ 1/6	4/-	7/-
„ SODII SULPHAS, P.B. ..	„ 1/4	3/9	7/-
„ „ PHOSPHAS, P.B. ..	„ 1/4	3/9	7/-
„ VICHY SALT	„ 2/4	5/-	9/-

SALINE EFFERVESCENS.

THIS is a thoroughly effective and reliable saline, guaranteed to keep good in any climate. It contains a slight excess of English Tartaric Acid, which gives that pleasant sharpness so much desired, also a small proportion of Howard's Magnes. Sulph. and Potass. Bitart., which supply the cooling and Saline properties. It is a fine white, dry powder, dissolving with sustained effervescence, and gives universal satisfaction.

In Bulk, 1-lb., 1/-; 1-cwt., 85/-

In 8-ounce stoppered Cheltenhams, each enclosed in a card case, with elegantly tinted and engraved wrappers of handsome design, bearing Customer's name.

Doz., 7/6. 12-Doz., 6/9.

Put up also in 4, 6 and 12-ounce bottles at proportionate prices.

N.B.—The prices quoted include Wrapper, Carton, and Label, ANY DESIGN, with Buyer's Name.

NEW STYLE, handsomely got up in Tins, with elegant Litho' Wrappers, NO name on Labels. Retail Price, 6d. 3/4 doz.; 36/- gross.

COMPOUND ANTIPYRIN OR HEADACHE SALT

(EFFERVESCENT).

Dose.—One dessertspoonful in half a glass of water, containing Antipyrin, 3 grains; Hydrobromate of Caffeine, 1 grain.

lb., 5/-; 4 and 8 oz. bots., 15/- and 29/- doz.

This combination is *more effective* and requires less than either Antipyrin or Caffeine alone. It is also pleasant to take.

BROMO-CAFFEINE

(GRANULAR EFFERVESCING).

Per lb.		3/6
¼ lb. bots.	doz.	8/-
½ „	„	15/-

Containing 1 grain Hydrobromate of Caffeine in each teaspoonful.

The 8 oz. bottles are patent stoppered, in strong cartons, with most costly and elegant wrappers, in gold, highly ornamental and attractive.

GOUT SALINE.

Each drachm contains:—Piperazine, Phenocoll Hydrochlor., *aa* gr. ijss.

lb., 18/-; 2 oz. bots., 28/-; 4 oz. bots., 50/- per doz.

The above combination is the modern remedy for Gout, and is being prescribed by leading specialists. We supply it in bulk, bearing the *Latin* name only.

In 3 dozen lots, with buyer's name on elegant label. Six one-drachm doses may be taken per day, in water or Hock.

LORIMER & Co., Wholesale Druggists and Manufacturing Chemists,
BRITANNIA ROW, LONDON, N.

"Syrup Ferri Phosph. Co., Lorimer's"



THIS FOOD is a pleasant and palatable solution of the Phosphates of Iron, Lime, Soda, and Potash.

The formula was published by the inventor, Professor Parrish, of Philadelphia, in his celebrated work on Pharmacy (p. 238, Ed. 1874), **and we received the Gold Medal for manufacturing it.**

Parrish's Gold Medal Chemical Food is prescribed by physicians for the formation of blood, **bone,** and tissues, and as **a valuable addition to the diet of children and adults in all cases of weakness, impoverished blood, and lack of bone.**

YE PARABLE OF YE GOLDEN MEDAL.

In ye 19th century ye great judge was ye British Public; and great were ye struggles to obtain its favour. Nowhere more than among ye Alchemysts.

Know ye all men that ye Olde Alchemysts, LORIMER & COMPANY, established near ye Olde Green, Islington, have been awarded by ye Medical Jury at Calcutta YE GOLDEN MEDAL for excellence in ye manufacture of PARRISH'S CHEMICAL FOOD.

Know ye also that this superiority of ye Islington Alchemysts hath caused great trouble in ye minds of ye rival manufacturers, who forthwith lament in sackcloth and ashes. One man (who having so often cried out to ye multitude, "I am ye original maker," that he at last believes it himself) thus tries, with much weeping, to reason out his own cause:—

"Ye are saying that yourselves have obtained ye Golden Medal in competition with ye principal manufacturers, English and American, including, by inference, ourselves.

"But we did not compete, we did not. Oh! we did not compete."

Ye Olde Alchemysts, LORIMER & COMPANY, answer, "Ye did exhibit, and therefore did compete with them, at ye Ancient Healtheries Exhibition (see Catalogue); still ye did not obtain any distinction; therefore hold thy peace, and give place to ye better man who, as ye well know, holds ye only GOLDEN MEDAL ever given to PARRISH'S CHEMICAL FOOD.

Ye cry for their GOLDEN MEDAL like unto a spoiled babe. Be a bold Englishman, and remember ye words of ye wise man,—"PALMAM QUI MERUIT FERAT."



PRICES.

PARRISH'S
GOLD MEDAL
Chemical Food
BEARING MAKER'S NAME.
Is sold only in

¼ lb.	½ lb.	1 lb. Bottles
4/9	7/1	12/- doz.

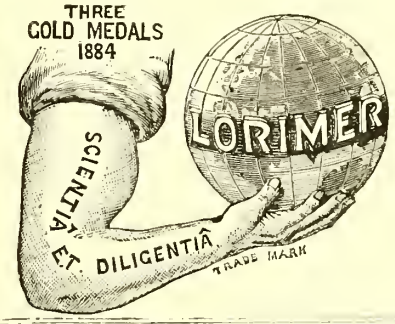
5 per Cent. Discount.

SYRUP FERRI PHOSPH. CO.
Chemical Food
(PARRISH'S).
In Bulk. Cwt. 36/-

¼ lb.	½ lb.	1 lb. Bottles
2 8	4 6	6 9 doz.
30 -	46 -	66 - gross.

STYLE.—Finest Quality.
Rounded Corner Flats.
LABELS, PLAIN BLACK ON YELLOW.
Each doz. Bottles in strong Carton.
CARTONS for each Bottle, 9d. doz. extra.

LORIMER & Co., Wholesale Druggists and Manufacturing Chemists,
BRITANNIA ROW, LONDON, N.

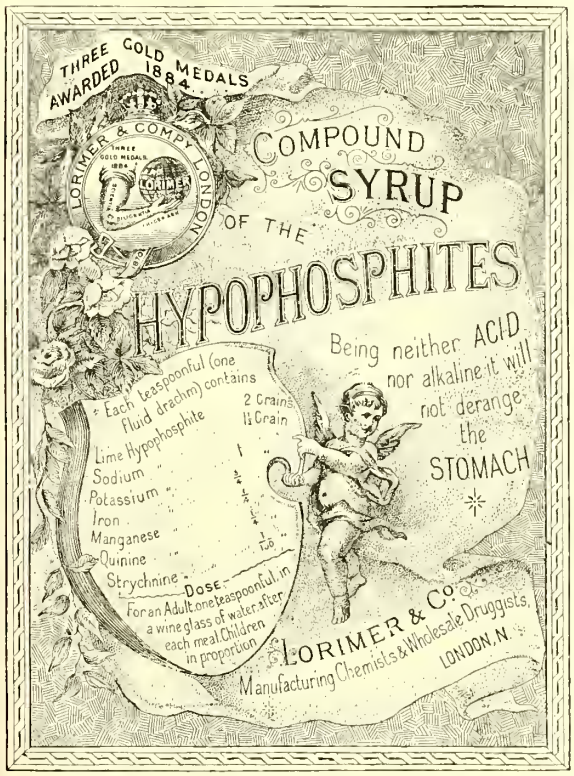


LORIMER'S HYPOPHOSPHITES.

"Syrup Hypophos. Co., Lorimer's."

½ lb. bots., Unstamped	...	21 - doz.	5% discount.
1 lb. „ „	...	36 - „	
Winch. Quarts	...	26 lb.	

FAC-SIMILE OF LABEL.



Syrup Hypophosph. Co.

Containing 3 grains Solid Salts per drachm, 1/4 lb.

In deep blue rounded-cornered bottles, with PLAIN LABELS or bearing Chemist's name only, in a large variety of styles.

¼	½	1 lb. bottles.
4 9	8 6	15 6 doz.

each bottle in carton, all got up in best style.

Opinions of Medical Papers.

LIVERPOOL MEDICO-CHIRURGICAL JOURNAL, January, 1887.

"LORIMER'S HYPOPHOSPHITES.—An excellent and stable preparation, containing a large proportion of the Hypophosphites in a very agreeable form. We have had a sample of it standing for some months, without undergoing any change, or there being precipitation of any of its ingredients. Its **permanence and reasonable price** will commend it to physicians."

DUBLIN MEDICAL JOURNAL, January, 1887.

"We have on a former occasion spoken in terms of approval of this preparation. A riper and more extended experience of its therapeutical value enables us to recommend it as one of the **best Syrups of the Hypophosphites** which has yet been compounded."

From PROVINCIAL MEDICAL JOURNAL, March 1, 1886.

"LORIMER'S HYPOPHOSPHITES.

"The total amount of Hypophosphites present was estimated by conversion into phosphates, and separate determinations were made of the metals and alkaloids present. . . . . The figures closely accord with those given in the formula according to which the Syrup is said to be prepared; and from the experiments to which it has been subjected, it appears to be very little liable to change in any way."

EDINBURGH MEDICAL JOURNAL, April, 1887.

"LORIMER'S HYPOPHOSPHITES.

"A preparation easily administered, and one which we can confidently recommend. . . . . Well suited for delicate stomachs."

LONDON MEDICAL RECORD, February, 1887.

"LORIMER'S HYPOPHOSPHITES.

"A very palatable preparation. . . . . The beneficial effects of a course of Hypophosphites are too well known to render it necessary to do more than allude to them. . . . . It is, however, essential, on ordering this medicine, to be sure that one *really obtains what is asked for.*"

THE PRACTITIONER, February, 1887.

"A specimen in our possession, after being kept for some months, seems perfectly clear and unaltered."

HOSPITAL GAZETTE, March, 1887.

"LORIMER'S HYPOPHOSPHITES.

"A potent and reliable remedy in cases of debility, anæmia, or wasting diseases."

EASTON'S SYRUP.

¼	½ lb. bottles.
6 -	11 6 doz.

As prepared by us, this Syrup keeps well without change or precipitation; it contains the full quantity of salts.

Put up in finest quality bottles. Each in carton with elegant litho label in colours.

Buyer's name free on six dozen.

COMPOUND SYRUP
OF THE
HYDROBROMATES
OF
Iron, Quinine and Strychnia.

Formula of British Pharmaceutical Conference.

¼	½	1 lb. bottles.
4 9	8 6	15 6 doz.

In rounded-cornered flats, finest quality, with type label in two colours.

Chemist's name on three dozen.

LORIMER'S HYPOPHOSPHITES.

"Appears to meet the desideratum long sought by the medical profession, viz., an elegant preparation, **definite and stated formula**, and moderate price.
"R. BROOM, M.D.,
"CLIFTON, *July* 20, 1886.

"PETERBOROUGH, *March* 22, 1887.
"I consider your Syrup to be a very good remedy, and have been pleased with its results. I think the medical profession ought to support your preparation, as it is of English manufacture.
W. EASBY, M.D.

IMPORTANT!

DR. FENWICK'S FOOD.



We are now able to offer a product of the greatest commercial value and interest, viz.:—Dr. FENWICK'S INFANTS' FOOD, which is FULLY DIGESTED, ABSOLUTELY FREE FROM ANY TRACES OF STARCH, and dissolves freely in milk or water (no cooking or boiling required), forming a NATURAL Food for Infants and Invalids.

This Food is manufactured for us in America, where it has been popular for many years, and has gained the support of the leading Members of the Medical Profession; it is, in fact, recognized as THE Infants' Food of the States.

We are Sole Consignees for Great Britain, and will have much pleasure in sending you a sample.

It is put up in bottles marked to sell at **2/6** and **1/6** each, and our prices are **12/-** and **7/9** per doz. We wish retailers to secure a fair profit, and we will not supply it to anyone retailing below **1/5** and **10½**d. per bottle.

Buyers of not less than 3 dozen 2/6 size may have their own name only on the Labels, Handbills, &c.

A FEW TESTIMONIALS FROM EMINENT MEDICAL MEN.

PROFESSOR ALBERT H. SMITH, of Philadelphia, one of America's greatest Physicians, wrote, *June 9th*, 1885:—

"Gentlemen,—I have been in constant use of Dr. FENWICK'S FOOD in my practice almost ever since it has been put upon the market, finding it a most admirable nutriment in the diseases attended with disordered digestion, both in children and adults.

"During the last five months I have been confined to my bed with sickness, and have had great trouble with my digestion, attended with entire loss of appetite. I have found Dr. FENWICK'S FOOD so acceptable to my stomach when everything else was repelled that it has come to be my main diet."

"I have used and recommended Dr. FENWICK'S FOOD during the past season with gratifying success very largely in derangements of the alimentary canal of children and also in cases of indigestion. I find it the best artificial food I have ever used, especially in children.

"Worcester, Mass., *Dec.* 24, 1875." "Yours, etc.,

"J. H. CARMICHAEL, M.D.

"I have used Dr. FENWICK'S FOOD and can cheerfully endorse it as one of the best Foods for Infants; also for adults where they require something easily digested.

"Cleveland, O., *Jan.* 25, 1876." "Yours, etc.,

"C. C. OLMSTED, M.D.

"This is the second year that we have used your Food in the Foundlings' Home. We have never used any artificial Food that has proved so generally satisfactory as has yours. In private practice I have used it wherever I have had occasion to use an artificial Food and it has done nobly. Adults whose stomachs would retain nothing else had lived for days on this Food prepared as a tea, and so recovered from dangerous illness. I have used other standard Foods, but none with such results.

"Chicago, *Aug.* 11, 1876." "Very truly yours,

"J. P. MILLS, Attending Physician.

INFANTS' MALTED FOOD.

This is the PARTLY DIGESTED ENGLISH FOOD, equal to any of the high price Proprietary Foods SOLD IN TINS.

In Bulk, 6d. lb.; 40/- cwt. in 1 cwt. air-tight iron drums, charged and returnable. ½ lb., 1 lb. Tins, 3/6 and 6/- doz.

CUSTOMERS' NAMES ON LABELS IN ONE CROSS LOTS.

PEPTONISING TABLETS.

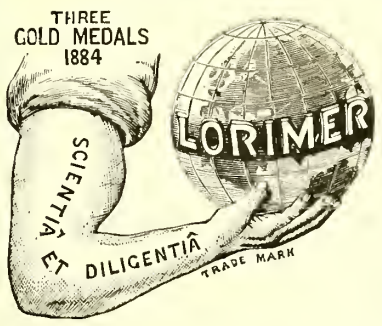
Each Tablet contains 2½ grains pure PANCREATIN and 8 grains SODIUM BICARBONATE.

FOR PRE-DIGESTING FOOD FOR INFANTS AND INVALIDS.

In Tubes to retail at 6d. and 1/-, 3/- and 5/9 doz.

Each Tube in Case, with full instructions and recipes for PEPTONISING various FOODS.

LORIMER & Co., Wholesale Druggists and Manufacturing Chemists,
BRITANNIA ROW, LONDON, N.



Reliable Preparations AND Specialities,

OF KNOWN AND APPROVED FORMULA.

PUT UP IN BEST STYLE FOR CHEMIST'S SALE.

Most of these Goods may be had in quantity with Buyer's own name on labels if preferred.

LIEBIG'S LIVER SYRUP.

2 oz. stamped bots. .. .. .. doz. 6/9
4 „ „ „ .. .. .. „ 12/3
8 „ „ „ .. .. .. „ 24/

This is a highly concentrated spiritnous preparation of Extract Tarax., Ext. Gentian, Resin, Podophylli, Dec. Aloes, &c; it is the best-known substitute for a much advertised American Syrup, and yields a handsome profit to the Retailer. Chemist's name on 6 dozen.

CHOCOLATE, APERIENS.

(Contain 1 grain Calomel in each.)

6d. boxes .. .. doz. 3/9
1s. „ .. .. „ 7/-

A pleasant aperient for children, who fancy they are eating chocolate creams. Full instructions on each box.

DISTILLED EXTRACT OF WITCH HAZEL.

lb. in bulk 1/6

4 oz. bottles .. .. doz. 7/
12 „ .. .. „ 18/

This is a "pure drug," water white, containing all the active principles of and distilled from the bark and young twigs of "*Hamamelis Virginica.*"

It was first introduced into this country under the fancy name of "Pond's Extract," later as "Hazeline." We sell it under its original and correct name, and at prices which should make it here as it is in America, the most popular and saleable article in a Chemist's stock.

Style—White glass bottles, each in carton with fullest instructions. Chemist's name on 6 doz.

SYRUP OF HONEY AND HOREHOUND.

4 oz. stamped bots. .. .. .. doz. 7/6
12 „ „ „ .. .. .. „ 19/

Each bottle in elegant wrapper with design in colours.

FLUID MAGNESIA.

6 oz. bots. .. .. doz. 3/9
12 „ .. .. „ 7/

In strong flats, wrapped in blue paper. Labels with Chemist's name on 6 doz.

MARKING INK.

(THE PERMANENT.)

6d. and 1/- bots .. .. .. doz. 2/3 4/6

We recommend this with confidence as the finest Marking Ink, and best value in the Trade.

Buyer's name on 1 gross.

JENNER'S ALTERATIVE MIXTURE AND BLOOD PURIFIER.

2/9 bots., stamped .. .. doz. 24/
5 per cent discount.

A Blood Purifier, containing Iodide of Potassium, Sarsaparilla, &c.

This is one of our best and most stylish preparations; the wrapper alone cost several hundred pounds.

WORM SYRUP.

2 oz. round vials, in elegant wrappers, 5/6 doz

A preparation of Santonine; very efficacious and popular.

FERRUM DIALYSATUM.

1/6 bots, in case with wrapper and drop tube .. .. doz. 12/
2 oz. bots .. .. „ 3/6
4 „ .. .. „ 6/6
8 „ .. .. „ 11/6

5 per cent. discount.

LIQUOR FERRI DIALYSATUS,

NEUTRAL AND FULL STRENGTH.

May be had in 3 doz. lots with Chemist's name.

SARSAPARILLA, FLUID EXTRACT.

4 oz. bots. .. .. doz. 9/6
8 „ .. .. „ 18/6
16 „ .. .. „ 35/

The Compound Decoction for which we were awarded a special Gold Medal.

Each bottle in carton with very handsome litho wrapper.

CIGARETTES.

Boxes of 10 .. .. doz. 6/
„ „ 25 .. .. „ 12/

The Cigarettes contain Cubebs, Stramonium, Cannabis Indica, and Camomiles.

May be had with Chemist's name on 6 doz.

QUININE & IRON TONIC (LORIMER'S).

8 oz. bots. .. .. doz. 7/6
16 „ „ .. .. „ 14/

5 per cent. discount.

Each in carton, with elegantly engraved label.

This has a very large sale, and is much appreciated by the public.

Plain label or buyer's name .. doz. 6/ and 11/

NEURALCIA & HEADACHE POWDERS.

Boxes of 12 to retail at 2/6 each .. doz. 12.

Contains Quinine and Antipyrine.

Buyer's name on 3 doz.

LIVER TONIC, TARAXACUM AND PODOPHYLLIN.

2/9 bots., stamped .. .. doz. 24/
5 per cent. discount.

8 oz. bottles in cartons with litho wrappers in colours.

SOOTHING SYRUP.

In 2 oz. white glass flats .. .. .. doz. 5/9

This is free from POISON, and very saleable.

Name and address on 3 doz.

CORN CURE.

The usual Salicylic Acid and Indian Hemp preparation.

6d. bots. .. .. doz. 3/3
1/ „ .. .. „ 6/
1/ „ stoppered .. .. .. „ 8/
Lorimer's .. .. „ 9/

The 1/ bottles are each in a carton, with brush, &c., and twelve cartons on a Showcard.

Chemist's name on 1 gross.

CHLORODYNE.

In bots. free—

	½ oz.	1 oz.	2 oz.	4 oz.
1 doz.	5/	9/	15/	26/
10 „	4/6	8/6	14/	24/
25 „	4/	8/	13/	23/

Equal to any make. Efficient and reliable. Full directions on each bottle. This necessary Medicine in tropical climates is prepared with pure materials and from the most approved formula; we therefore most confidently recommend it.

"MACIC VOCALIZERS."

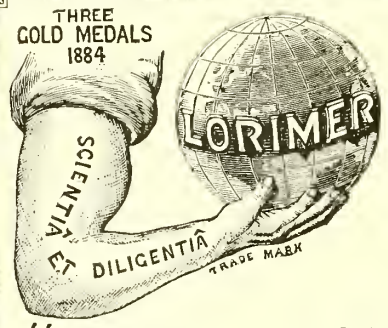
The indispensable Companion of Singers and Speakers.

1/ boxes .. .. .. doz. 9/

5 per cent. discount.

HONEST GOODS, AND JUST THE THING ON WHICH TO MAKE OR INCREASE YOUR BUSINESS.

Extract from a Testimonial.—"The popularity of your own goods, those you supply to run against Patents, and the energetic manner in which you have advertised them, have made my business. Being protected from competition in all your lines, I get good all-round profits, and think your system only requires to be known."



COMPRESSED PELLETS.

THESE may be had either in bulk or put up in metallic boxes, or heart-shaped bottles with white metal screw-caps. A special set of descriptive labels (without any name or with space for Chemist's name) has been compiled for these bottles.

Triturates and tinctures in the form of pellets are sent out in miniature white glass bottles in cases for the pocket.

All insoluble drugs, as sulphur, phenacetin, salol, &c., are specially compressed so that the pellets readily disintegrate in cold water.

"MAGIC VOCALIZERS."

The Indispensable Companion of Singers and Speakers.

1/- boxes .. .. 8/- doz. 5 dis.

VOICE PELLETS

	Bottles of 36 Doz.	Tins of 40 Doz.
Each pellet containing Chlorate of Potash, Borax and Cocain .. .. 5 grs.	3/4	2/1

VOICE PELLETS,

Consisting of Chlorate of Potash, Borax and a minute proportion of Capsicum, so as to add a slight stimulating effect—5 grs.

Bottles of 36 Doz.	Tins of 40 Doz.
3/4	3/-

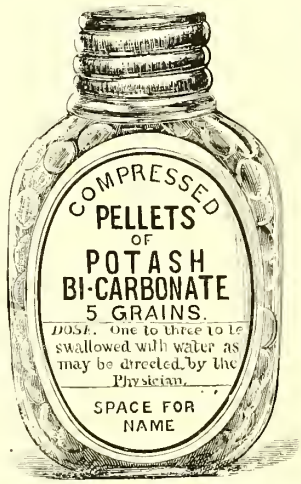
HYPODERMIC PELLETS,

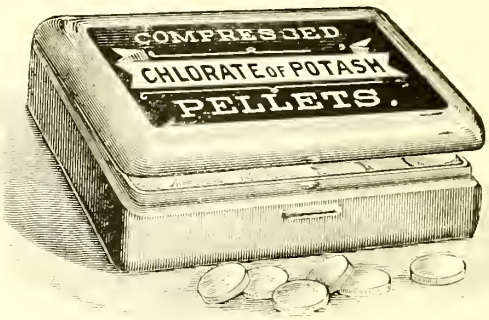
All sorts. Single Tubes containing 20 Pellets, 1/- each.

TINCTURES,

Reduced to miniature Pellets and supplied in small oblong white glass bottles, in neat cases for pocket. Each bottle contains 24 Pellets, nicely labelled.

3/10 per doz. cases.



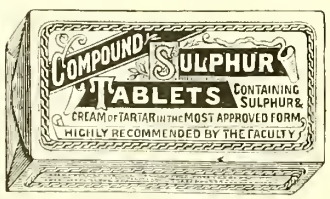


	Bottles of 36 Doz.	Tins of 40 Doz.
AMMON. BROMID. .. .. 5 grs.	3/-	3/-
,, CHLORIDE .. .. 5 grs.	3/-	1/8
ANTIPYRIN .. .. 5 grs. (bots. of 25)	12/9	—
ANTIFEBRIN .. .. 5 grs.	3/6	3/3
CASCARA SAGRADA, *sugar coated* .. .. 3 grs.	6/6	6/-
COCAIN MUR. .. .. 1/6 gr. in 1 gr.	7/6	7/6
,, ,, ... 1/6 gr. in 5 grs.	7/6	7/6
PEPSIN P. B. .. .. 5 grs. (bots. of 25)	6/6	—
,, ,, *sugar coated* .. .. 5 grs. (bots. of 25)	6/6	—
PHENACETIN .. .. 5 grs. (bots. of 25)	16/6	—
POTASS BICARB. .. .. 5 grs.	3/-	3/-
,, BROMID. .. .. 5 grs.	3/-	3/-
,, CHLOR. .. .. 5 grs.	3/-	1/8
,, ,, c. BORACE .. .. 5 grs.	3/-	1/8
,, ,, ,, ,, *et* COCAIN .. 5 grs.	3/-	3/-
POTASSII IODID. .. .. 5 grs.	10/6	10/6
,, NITRAS. .. .. 5 grs.	3/-	1/8
QUININE BISULPH. .. .. .. 2 grs. (bots. of 25)	5/6	—
SALOL .. .. 5 grs. (bots. of 25)	9/9	—
SODÆ BICARB. .. .. 5 grs.	3/-	1/8
SODA MINTS .. .. 5 grs.	3/-	1/8
SODA & GINGER .. .. 5 grs.	3/-	1/8
SULPHONAL .. .. 5 grs.	8/6	—
SODÆ SALICYLAS PHYS., pure .. .. .. 5 grs.	8/9	—

SACCHARINE .. ½ gr. weighing ⅛ gr., bots. of	25	50	100	200
	2/6	4/-	6/-	11/6

HIGH-CLASS MEDICATED LOZENGES.

OUR OWN MANUFACTURE.



	Per lb.—s. d.
ACID TANNIC P. B.	1 7
APERIENT	1 4
BISMUTH	1 10
BLACK CURRANT, Finest	1 8
,, ,, with TANNIN & CAYENNE	2 0
BOUQUET	1 0
,, DWARF	1 4
CALOMEL, ½ grain in each	1 1
,, 1 ,, ,, ,, ...	1 2
CACHOU BOUQUET, Small— Jasmin .. Jockey Club Heliotrope .. .. Oriental Violet	2 0
COCAINE	3 8
COUGH, ANISEED	0 9
COUGH BALSAMIC	0 11
,, ,, 6d. (2 oz. boxes), doz.	2 0
,, LORIMER'S	1 2
,, ,, 6d. & 1/- fancy tins	2 3 4 4

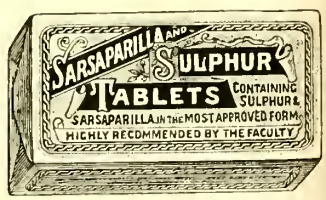
ADDITIONS TO LIST, FOR OTHER LOZENGES SEE FULL LIST.

SULPHUR TABLETS, 4 lb. boxes	lb., 9d.	cwt. 56/-
,, LOZENGES, GARROD'S, 4 lb. boxes	lb., 11d.	cwt. 70/-
SULPHUR TABLETS, each Tablet wrapped with printed instructions, packets of 12, handsomely got up, litho wrapper in colour, *no name, as illustration*	2/- doz.	pkts. 18/- gross.
SULPHUR & SARSAPARILLA TABLETS ..	lb., 1/2	cwt. 90/-
,, ,, ,, packets as above	4/- doz.	36/ gross.
BLACK CURRANT OVALS	lb. 1/6	
GLYCERINE JUJUBES	lb. 1/6	
LIME FRUIT JUJUBES	lb. 1/6	
MALT PASTILLES	lb. 1/6	
CACHOU LOZENGES, "ORIENTAL"	lb. 1/6	
,, ,, "VIOLET," "HELIOTROPE," "JOCKEY CLUB," or "AROMATIC"	lb. 2/-	
CHARCOAL TABLETS, 4 lb. boxes	lb. 9d.	cwt. 56/-
CREAM LOZENGES, "MUSK," "ROSE," or "SHERBET," 4 lb. boxes	lb. 9d.	cwt. 56/-
COUGH LOZENGES, "ANISEED," 4 lb. boxes ..	lb. 9d.	cwt. 56/-

	Per lb.—s. d.
CATECHU, P. B.	1 4
CAYENNE OPT.	1 1
CHLORATE POTASH, P. B.	1 4
GINGER OPT.	1 3
,, ROUGH OPT.	1 3
,, OPT, curiously strong ..	1 4
,, SEC.	1 0
IPECAC. P. B.	1 4
KINO	1 4
LAVENDER, Rough Pink	1 4
MORPHIA, P. B.	1 10
,, & IPECAC., P. B. ..	1 10
MUSK, Small Round	1 4
,, Pink Oval	1 4
PAREGORIC	1 4

	Per lb.—s. d.
PEPPERMINT, Rough Ovals	0 5
,, X strong	0 8
,, XX ,, ...	0 10
,, XXX ,, ...	1 0
,, extra super.	1 2
RED GUM	1 10
RED & WHITE ROSE	1 8
ROSE, Small Round	1 4
,, PINK, Oval	1 4
,, WHITE, ,, ...	1 4
SANTONINE, 1 grain	1 6
TANNIN, P. B.	1 4
,, & CAYENNE	1 4
TOLU	1 4
VOICE PINK	1 4

SPECIMEN PRICES.



	Per lb.—s. d.
VOICE BLACK CURRANT	1 8
WORM	1 4
,, OPT.	2 8

LOZENGES.

THROAT HOSPITAL PHARMACOPŒIA.

	Per lb.—s. d.
TROCH. ACID BENZOIC	1 10
,, ,, CARBOLIC	1 4
,, ,, TANNIC	1 8
,, ALTHEÆ	1 4
,, CATECHU	1 4
,, CUBEBÆ	2 0
,, EUCALYPTUS	1 10
,, GUARACI	2 0
,, HÆMATOX	2 0
,, KINO	1 8
,, KRAMERIÆ	2 4
,, LACTUCÆ	2 0
,, POTASS. CHLOR.	1 8
,, ,, CITRAS	2 0
,, ,, TART. ACID ..	2 0
,, SEDATIVE	2 0

From "TRADE," of January 21st, 1888.—"To begin with, it is now admitted throughout the trade that everything coming from the well-known house in Britannia Row may be relied on as absolutely pure, and the best of its kind. It will be delivered, too, where possible, in an attractive form, all the latest improvements in this respect having been adopted by the firm. An experienced F.C.S. superintends the laboratory work. The firm prepare all their essences and they can turn out 1,000 ounces of Citrate of Iron and Quinine a day, while the granulating rooms are fitted with white glazed tiles to ensure cleanliness, and will work up to one ton per day, the average output of the firm during the summer."

"THE CHEMIST AND DRUGGIST," January, 1885.—"The style of the get-up is very

SOLUBLE, TASTELESS, PEARL COATED PILLS.

SPECIMEN PRICES. FULL LIST ON APPLICATION.

SPECIMEN PRICES. FULL LIST ON APPLICATION.

Made in our own Laboratory from the purest and most active ingredients.



FORMULA.		Per Gross.
219 ALOIN	gr. 1-20th	
Podophyllin	„ 1-5th	
Ext. Hyoscy.	„ 1-20th	
Jalapin	„ 1-10th	
Ext. Nucis Vom.	„ 1-20th	
Capsicin	„ 1-20th	5d.

White Metal screw-cap bottles, containing 36 Pilules, 3/- dozen, 36/- gross.

Elegant Labels and Wrappers with Customers' own names, with 1-gross lots.

BRITISH PHARMACOPŒIA PILLS.

	Per Gross.
ALOES BARB.	6d.
ALOES ET ASAFŒTIDA	6d.
ALOES ET FERRI	5½d.
ALOES ET MYRRH	1/1
ASAFŒTIDA CO.	6d.
COLOCYNTH CO.	10d.
COLOCYNTH ET HYOS	1/-
FERRI CARB.	6d.
HYDRARG.	6d.
RHEI CO.	5½d.

APERIENT PILLS.

34 EXT. ALOES AQUOSUM	gr. xx....	
Pulv. Cambogia	„ iv	
„ Jalapæ	„ viij ..	
„ Colocynth	„ vi	
„ Hyd. Subchlor.	„ iv	
„ Sapo. Hyspan	„ iv	
Gingerin	„ ij	
	Ft. Pil. xij	6d.
35 As No. 34, with 1 gr. Calomel in each pill		6d.
36 „ 34, without Calomel		6d.
37 „ 34, half size		6d.
38 „ 35, „ „		6d.

PIL. CATHARTIC. FORT.

	Per Gross.
46A Pulv. Jalapæ	
„ Coloc. Turc. ..aa. gr. ½	
„ Aloes Socot. „ ij	
„ Saponis „ ½	
Calomel „ ij	
Gingerin „ 1-16th	6d.

ANTIBILIOUS.

47 PIL. HYDRARG. gr. i	
Ext. Coloc. Co. „ ij	
„ Hyoscy. „ i	11d.
53 PIL. HYDRARG. „ ii	
„ Rhei Co. „ iii ..	8d.
62 HYDRARG. SUBCHLOR „ iss ..	
Pil. Coloc. Co. „ iij ..	1/-
67 PODOPHYLLIN „ 1-4th	
Ext. Coloc. Co. „ ij	
„ Hyoscy. „ i	1/-

CASCARA SACRADA EXT.

146 EXT. CASCARA SAGRADA gr. ij....	6d.
148 EXT. CASCARA SAGRADA „ iv ..	1/-
148A EXT. CASCARA SAGRADA „ ij	
„ Nuc. Vom. Alc.	
„ Belladonnæ .. aa. gr 1-8th	
„ Gentian .. gr. ss.	1/-
148B EXT. CASCARA SAGRADA „ ij	
„ Nuc. Vom. Alc.	
„ Hyoscyam .. aa. gr. 1-8th	
„ Gentian .. gr. ss.	1/-

PENNYROYAL PILLS.

1150 OL. PULEGII .. gtt. 1-8th	
Pil. Aloes et Ferri .. gr. iv. ..	8d.

PHOSPHORUS.

	Per Gross.
10 PHOSPHORI PUR gr. 1-30th	1/6
9 PHOSPHORI PUR „ 1-50th	1/6
4 PHOSPHORI PUR „ 1-30th	
Quininæ Sulph. „ i	2/-
5 PHOSPHORI PUR „ 1-50th	
Ferri Redacti „ iij ..	
Quininæ Sulph. „ ss. ..	
Strychninæ „ 1-50th	2/-

PODOPHYLLIN.

199 PODOPHYLLIN gr. 1-4th	6d.
200 PODOPHYLLIN „ ss. ..	8d.

BLAUD'S PILLS.

Perfected Formula, retaining the Proto-Carbonate of Iron unchanged.

94 FERRI SULPH.	
Potas. Carb. Pur. .. aa. gr. ijss.	4d.

QUININÆ SULPH. P.B.

½	1	2	3	4 grains.
4½d.	5d.	9d.	1/1	1/11 gross.

	Per Gross.
94A ERGOTINUM	
Ferri. Sulph. Exsic.	
Ext. Hellebor. Nig.	
„ Aloes Socot .. aa. gr. i.	
Ol. Sabinæ .. m. ½	1/2

CASTOR OIL PILLS.

83 PULV. RHEI	
Potas. Sulph. ..aa. gr. iss.	
Pulv. Sapo. Hysp.	
Ol. Ricini ..aa. „ ss.	
„ Croton „ 1-16th 6/-	6d.

"LITTLE" COUGH PILLS.

MORPH. HYDRCHLOR gr. 1-36th	
Pulv. Scillæ ..	
Pulv. Ipecac. aa. gr. 1-12th	
Bals. Tolu. .. gr. 1-4th	5d.



Soluble Gelatine Capsules and Perles.

These are admitted to be the perfection of a Gelatinous Capsule; they are soft and pliant in the mouth, tasteless, and can be swallowed with the greatest ease.

The medicines they contain we guarantee to be perfectly pure, and the quantities in each Capsule as stated below.

We can put any medicine that may be required into Capsules, and keep the following in stock, which will be forwarded without delay at prices as under.

In large quantity may be had with purchaser's name on labels.

GELATINE CAPSULES.

HARD OR FLEXIBLE.

	Per 1,000 in Boxes of 100.	Per Dozen Boxes.	Number of Capsules in each.	Metal Screw Cap Bottles
Castor Oil, 10 mins.	7/6	5/4	36	Containing the same number of Capsules as the Boxes, are 1/3 per Dozen higher price than the Boxes.
„ 15 „	10/-	5/8	36	
„ 30 „	18/-	3/4	12	
„ 60 „		6/-	12	
Cascara Sagrada Extract =30 minims	15/-	6/-	24	
„ „ and Euonymin	24/-	9/6	24	
Cod Liver Oil, 10 mins.	8/6	5/4	36	
„ 15 „	9/-	5/8	36	
„ 30 „	18/-	3/4	12	
Copaiba Balsam	8/6	5/3	36	
„ „ Sandal Wood Oil	25/-	14/-	36	
„ c Cubebs & Santal	30/-	16/-	36	
„ c „ & Matico	30/-	16/-	36	

GELATINE CAPSULES.

HARD OR FLEXIBLE.

	Per 1,000 in Boxes of 100.	Per Dozen Boxes.	Number of Capsules in each.	Metal Screw Cap Bottles
Copaiba Balsam				Containing the same number of Capsules as the Boxes, are 1/3 per Dozen higher price than the Boxes.
„ c Cubebs & Buchu	30/-	16/-	36	
„ c „ & Iron	22/-	11/-	36	
Creosote 1 min. & Cod Liver Oil 9 mins.	14/-	7/-	36	
Male Fern Extract or Oil	22/6	7/-	24	
Phosphorus Oil, 5 mins.	15/-	6/-	24	
Sandal Wood Oil, English, 10 mins., guaranteed pure	36/-	12/-	24	
Do. Exot.	23/-	8/-	24	
Tar	8/3	5/6	36	
Terebene	14/-	7/-	36	
Turpentine Oil	12/-	7/-	36	

GELATINE PERLES.

	Per 1,000 in Boxes of 100.	Per Dozen Metal Screw Cap Bottles containing 25	Per Dozen Metal Screw Cap Bottles containing 50
Æther	18/-	8/-	13/-
Antipyrine	36/-	20/-	39/-
Chloroform	18/-	10/-	17/-
Creosote	15/-	8/-	14/-
Phosphorus	15/-	8/-	14/-
Quinine	34/-	14/-	26/-
Tar	9/-	6/-	9/-
Turpentine	9/-	6/-	9/-

Boxes of 24 are round, as illustrated above. Boxes of 36 are oval.

LORIMER & Co., Wholesale Druggists & Manufacturing Chemists,

BRITANNIA ROW, LONDON, N.

HIGH CLASS INVALID WINES.

We guarantee these Wines to be the finest of their kind obtainable, giving universal satisfaction. In quantities of not less than 3 dozen, we supply them with handsome labels bearing Buyer's name only.

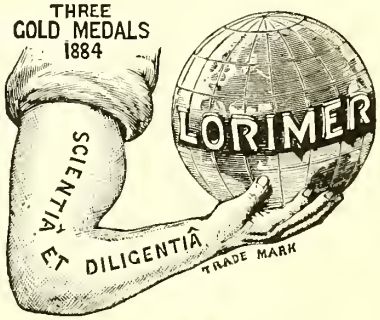
Those bearing our name are well advertised **and the price is maintained,** but very good quality Wines are sold at the lower prices **under Buyer's own labels,** who thus has a large margin for advertising and pushing his own Wine; this advantage is much appreciated by most Customers.

P.S.—OUR PRICE LIST OF FOREIGN WINES FOR HOME TRADE OR SHIPMENT IN BOND WILL BE SUPPLIED ON APPLICATION.



COCA WINE (LORIMER'S).

Imperial pints, 29/- doz.; 5 % dis.
retail, 3/6 each.
With plain labels or buyer's name, 18/- doz.



BEEF AND MALT WINE, LIEBIG'S.

(LORIMER'S) Champ. pts. and qts., 16/- & 29/- doz. 5 % dis.
With plain labels or buyer's name,
11/6 & 22/-



COCA-VINO, ¼ & 1 lb. bots., 2/6 & 6/6 ea.

USES.—This is introduced in reply to inquiries for an easy method of preparing Coca Wine, by simply adding it in the proportions stated as under: to Port, Champagne, Burgundy, Hock, or any other Wine; the quantity required is very small, and it may be added to the glasses of Wine at time of drinking.

DIRECTIONS.—1 lb. will make 4 gallons of Port or Sherry Coca (10 drachms to a bottle); 8 gallons of Hock, Claret, or Burgundy Coca (5 drachms to a bottle); and 12 gallons of Champagne Coca (3½ drachms to a bottle).

COCA-KINA ... ...8/- doz. 5 % dis.

A sparkling, invigorating and non-alcoholic Wine. In small Champagne bottles.

VINUM AURANTII P.B.,
Gal., 3/9; 50-gal. casks, 3/- gal.

VINUM AURANTII Sec,
Gal., 2/9; 50-gal. casks, 2/3 gal.

Both above Wines will produce a permanently brilliant Quinine Wine.

VINUM XERICUM, 30-gal. casks, 160/- ea.; gal., 6/6. 30-gal. casks in Bond, 85/- ea.

This is a 2/6 duty Wine, much better than usually used for **P.B. VINA,** in fact an excellent Table Sherry.

VINUM RUBRUM,
30-gal. casks, 150/- each; gal., 6/-.

Is a selected **RED WINE,** pure and full strength. It is the best in the market for producing the various Invalid Wines now so popular. In bond £25 per pipe of 117 gals.

A Retired Aged Gentleman writes:—"I was led to try LORIMER'S COCA WINE, and the effect was **simply marvellous.** My pulse rose to its old rate of 64, in a few days my appetite returned, and I have not known fatigue since, though out in my garden seven or eight hours every day. In fact, I am stronger now than I have been during the past five years, and the blessing I feel it . . . . . no tongue can tell. **My whole frame thrills with gratitude.**

The ORIGINAL may be seen by inquirers; but we are not at liberty to publish the writer's name.—L. & Co.

NO LICENCE REQUIRED FOR THE SALE OF

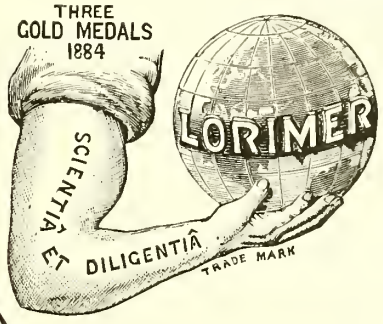
QUININE WINE (Lorimer).

Bottles, 6 to gallon .. .. doz. 16 -
" 2/- size .. .. " 14 3 } Discount, 5 per cent.
" 1/- " .. .. " 8 - }
Export Cases for 1 doz. quarts, 1 6 each.

QUININE WINE (No. 2).

Quarts, 12 - doz.: gross lots, 10 - per doz. nett.
This has an enormous and increasing sale. It does *not* require a licence.
Customer's Name on Label, if preferred.







LORIMER'S LIME JUICE CORDIAL.

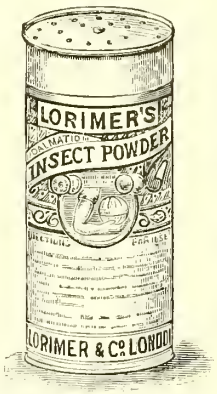
IN BULK. 30 gallon Casks, 3/3 gallon. Pipes, 2/9 gallon.

Bottles, 6 to gallon .. .. doz. 8/6 } Discount, 5 per cent.
" 12 " .. .. " 4/6 }
Export Cases for 1 doz. quarts, 1/6 each.

WARRANTED TO KEEP IN ANY CLIMATE.

NELSON'S LIME JUICE CORDIAL, bottles, 6 to gallon .. 72/- gross nett.
" " " " " 12 " .. 45/- "
May be had with Buyer's Name on Labels.

LORIMER & Co., Wholesale Druggists & Manufacturing Chemists,
BRITANNIA ROW, LONDON, N.



PURE DALMATIAN INSECT POWDER.

In Fairy Guns or Squirts, 4/6 doz.; 51/- gross.

OUR OWN IMPORT and GRINDING. GUARANTEED PURE and ABSOLUTELY FATAL TO INSECT LIFE.

In fancy decorated crystallised Tins, very handsome, as Illustration.

6d. size boxes of 3 doz. .. .. .. 34/- gross | 1/- size boxes of 3 doz. .. .. .. 63/- gross

Above Tins have Perforated Rotary Tops.

Pound	11d.	3d. tins, 3 doz. boxes	gross 21/-
1d. tins, in ½ gross boxes	gross 6/-	6d. " " "	" 30/-
2d. " " "	" 14/-	1/- " " "	" 58/-

The 3d., 6d., and 1/- tins are round, with perforated rotary tops, are wrapped in green enamelled paper, and have labels with space available for Customer's name.

CARBOLIC ACID.

Pale No. 5 disinfecting, containing 95 per cent. Acid

In deep blue fluted flats:

8	16 oz.	
4/6	7/9 doz.	Strongly packed in Cartons.
48/-	81/- gross	

ELEGANT LABELS WITH CUSTOMER'S NAME ON GROSS LOTS.

DISINFECTING SANITARY FLUID.

Miscible with water, a most satisfactory and saleable substitute for the expensive advertised nostrums.

8	16 oz. bots.	
3/10	5/6 doz.	Bottles safely and strongly packed in Cartons.
38/-	60/- gross	

IN DEEP BLUE FLUTED FLATS.

CARBOLIC DISINFECTING POWDER.

CONTAINING THE HIGHEST PERCENTAGE OF CARBOLIC ACID, PINK COLOURED.

In round tins with perforated tops, containing ¼ lb., 1 lb., 2 lbs.; 2/3, 3/3, 5/9 doz.

Fine Bold Labels with directions. Varnished for Export. Buyer's name on 2 gross.

HORSE BALLS.

Buyer's Name on each.



Elegant Veterinary Pharmacy.

(FLETCHER'S PATENT.)

Formulæ and fuller Particulars on Application.

No.		Gross.	No.		Gross.	No.		Gross.
4.—ALTERATIVE BALLS	.. ..	24/-	21.—COUGH BALLS (Chlorodyne)	..	39/-	19.—PHYSIC BALLS	.. ..	48/-
22.—ANODYNE BALLS	.. ..	54/-	8.—DIURETIC BALLS	.. ..	24/-	15.—STIMULATING BALLS	.. ..	24/-
5.—ASTRINGENT BALLS	.. ..	24/-	9.—FEVER BALLS	.. ..	24/-	10.—TONIC BALLS	.. ..	24/-
12.—CONDITION BALLS	.. ..	24/-	1.—PHYSIC BALLS	.. ..	24/-	11.—TONIC BALLS	.. ..	20/-
6.—CORDILA BALLS	.. ..	24/-	2.—PHYSIC BALLS	.. ..	30/-	20.—TONIC BALLS (Quinine)	..	33/-
7.—COUGH BALLS	.. ..	24/-	3.—PHYSIC BALLS	.. ..	36/-	13.—WORM BALLS	.. ..	30/-
16.—COUGH BALLS	.. ..	27/-	18.—PHYSIC BALLS	.. ..	42/-	14.—WORM BALLS	.. ..	60/-
17.—COUGH BALLS	.. ..	27/-						

PACKED IN BOXES OF ONE DOZEN.



EMBROCATION FOR HORSES & CATTLE.

In very strong round Stoppered Bottles, reputed pints, 9/- doz.

The Embrocation is a white perfect emulsion, non-separating, prepared from the formula of an experienced Veterinary Surgeon, and perfect in use.

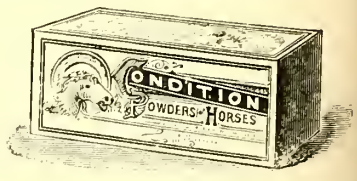
MAY BE HAD IN 1 GROSS LOTS, WITH BUYER'S NAME ON LABELS.

CONDITION POWDERS.

In 1-lb. square tins; each tin in an elegant carton, 6/9 doz.

This Powder is highly approved at home and abroad, and commands a large and satisfactory sale.

May be had with Buyer's Name.



LORIMER & Co., Wholesale Druggists and Manufacturing Chemists,
BRITANNIA ROW, LONDON, N.



SCHOOL OF COOKERY.

Mr. LORIMER. *September 21st, 1882.*

Dear Sir,—I have used your Syrups and Essences in my 400 Public Lectures this year, and in my Classes and Schools for Cookery for the past twelve months, and can therefore confidently recommend them for household and general use. The Bouquet of each is perfect. They are economical in use, and a perfect treasure alike to chef and housewife.

I am, Dear Sir, yours truly,

BARBARA WALLACE GOTHARD, Lady Superintendent.

Analytical Laboratory, Britannia Row, Islington, N.

All LORIMER'S Essences are manufactured under my supervision, and I guarantee them to be entirely free from anything that would be injurious to health. They are of the fullest strength and contain the purest ingredients from which Essences can be made.

GEORGE LLOYD, F.C.S.

Lorimer's Flavouring Essences

are Distilled from Spices, Herbs, Fruits, &c., for Culinary Purposes, and

ALWAYS ANSWER THE ABOVE GUARANTEES.

Labels of Handsome Design, with Purchaser's Name, are supplied with Orders of One Gross and upwards.

ALLSPICE	FENNEL	NUTMEGS
ALMONDS	GARLIC	PARSLEY
ANISEED	GINGER	PEPPERMINT
CARRAWAY	HORSERADISH	PINE APPLE
CAYENNE	LEMON	RASPBERRY
CELERY	MACE	RATAFIA
CINNAMON	MIXED SPICE	SAGE
CLOVES	MAJORAM	SHALOTS
COCHINEAL	NOYEAU	VANILLA
CURACOA		

½ oz. bots.	... doz. 2/6	... gross 26/-	
1 ,,	... ,, 4/6	... ,, 48/-	
2 ,,	... ,, 8/-	... ,, 84/-	
4 ,,	... ,, 14/-	... ,, 144/-	

In ½ or 1 doz. Fancy Boxes, assorted or otherwise.

In round fancy glass trays, each tray containing 5 bottles assorted Essences, the whole in a strong handsome carton, doz., 21/- Retail at .. each 2/6

We ship our Essences in Bond, with a reduction in price of about 10 per cent.

The minimum quantity that we can ship on these terms is two gallons, and we beg to point out that all bottles in the same case must be of one size only.

We have a very large collection of artistic labels available for Customer's Name, if preferred, and invite buyers who have not yet imported our Essences to give them a trial.

ARROWROOT, BERMUDA, FINEST .. ½, 1 lb. tins, 13/- 24/- doz.
,, NATAL .. .. .. ½, 1 lb. tins, 5/- 9/6 doz.
,, ST. VINCENT .. .. ½, 1 lb. tins, 4/- 7/- doz.
,, WEST IND'AN .. .. ½, 1 lb. tins, 3/6 6/- doz.

BAKING POWDER, FINEST { 4d. lb. / 30/- cwt. } ¼, ½, 1 lb. tins, 1/10, 3/4, 6/- doz.
Egg & Custard Powders at same prices
,, ,, ,, ... 1d. packets, 5/6 gross.

Put up bearing Customer's Name on labels. Quantity of 10 gross 1d.; 2 gross 6d.; 1 gross 1/- May be taken at two deliveries.

CURRIE POWDER, GENUINE INDIAN, Per lb. 1/-

To those of our friends who have not favoured us with their orders for this article, we shall be pleased to send trial samples for home use.

By weight, 16 oz. bots., doz.	15/-	12 doz.	13/6
,, 8 ,, ,,	8/4	,,	7/6
,, 4 ,, ,,	5/2	,,	4 10
,, 2 ,, ,,	3/2	,,	3/-
,, 1 ,, ..	2/4	..	2/-
,, ¼ lb. tins ,,	4/-		
,, ½ ,, ,,	7/6		
,, 1 ,, ,,	13/6		
,, 2 ,, ,,	25/-		

Large Assortment of Labels for Buyer's Names.

CURRIE POWDER { lower qualities than above, for export. } 24/- 56/- 40/- cwt.

EXTRACTUM CARNIS, LIEBIG'S (Pure Beef Extract).

Without ANY exception the finest Beef Extract in the World. We challenge comparison.

LABELS WITH CUSTOMER'S NAME WITH ORDERS FOR SIX DOZEN.

½, 1, 2, 4, 8, 16 ounce Pots, 3/- 4/6 8/- 14/6 26/- 48/- doz.

CONCENTRATED

VINEGAR ESSENCE.

Manufactured in our own Laboratories from Best English Malt, and guaranteed free from Sulphuric Acid or any noxious compounds. Twelve parts of water added to one part of this Essence will produce a pure, strong Vinegar of exceptionally fine flavour at less cost than the ordinary article, besides which there is an additional saving in freight and packing in importing this Essence.

WE QUOTE—

In Bulk .. .. per gal. 5/-
Bottles containing sufficient to make a gallon of Vinegar .. .. per doz. 8/-
Bottles containing sufficient to make half a Gallon of Vinegar .. .. ,, 4/6

The following example will show the great economy in using our CONCENTRATED VINEGAR ESSENCE.

One gallon Essence at 5/- mixed with 12 gallons of water produces 13 gallons Pure Vinegar at 4½d. per gallon.

SAUCES

(BEST POSSIBLE VALUE).

YORKSHIRE	Finest Quality	½ pints ..	gross 36/-
WORCESTERSHIRE		Pints ..	,, 60/-
		Quarts ..	,, 110/-
		Gallon	3/-
READING	Good Quality	½ pints ..	gross 22/-
HARVEY		Pints ..	,, 40/-
		Quarts ..	,, 82/-
		Gallon	2/3
WINDSOR, &c		Giant 1d. bot.,	gross 6/6
		,, 2d. ,,	,, 13/-

These may be had bearing Customer's own Name on Labels when so required.

PEPSINE, LORIMER'S *(Registered)* ½ pints.. doz. 4/6 } 5
(The most delicious Sauce obtainable.) Pints .. .. 8/6 }

Has a large and Increasing sale, and gives great satisfaction.

From "The Chemist and Druggist," January 28th.

"The centre is occupied by a series of vacuum pans and a hydraulic tincture press. Essence of Vanilla is manufactured and kept there in quite astonishing bulk, several hundreds of gallons being always retained in stock in order to ensure a well-matured essence. Pepsine Wine and Quinine Wine also bulk very largely in this department. Coca Wine is a newer interloper, but is advancing in popularity, we are told, very satisfactorily."

The "Home and Colonial Mail," December 12th, 1884.

"These preparations, which are worthy the reputation of the firm, seem specially suited to the requirements of the export trade. They are strongly packed, and although meant to bear the strain of up-country journey, are most artistically wrapped and labelled.

Perfumery and Toilet Requisites.

PERFUMES, FRENCH,

TRIPLE CONCENTRATED.



No. 36, all sorts.

3d. corked bots. ..	gross	18/
½ oz. „ ..	doz.	5/6
1 „ „ ..	„	9/2
2 „ „ ..	„	17/6

Bottles any popular pattern.

Sprinkler bots., 6d. doz. extra.
Glob. stopd. bots., 9d. doz. extra.

5 oz. glob. stopd. orig. bots.

	doz.	30/
10 „ „ „ „	„	55/
20 „ „ „ „	„	108/

In bulk, lb. 9/

Of this special quality Perfume we import tins of the finest French brands. The ½, 1 and 2 oz. are bottled by us under our own label, as imported, or may be had with purchaser's own name in handsome costly labels, quantity equal to 1 gross (1 oz.).

The 5, 10 and 20 oz. are the original bottles, as imported, bearing the distiller's own labels.

The 5 oz. is a specially handsome tall globe stoppered bottle, with elegant label in gold and colours.

In bond, 10 to 25 % discount.

Eau de Cologne,

LION BRAND.



2 and 4 oz., 7/-; 12/6 doz.

		Doz.
Wickd. bots., 4 oz.	..	16/6
„ 8 „	..	27/
„ 16 „	..	40/
„ 32 „	..	76/

In bond, 10 to 25 % discount.

PERFUMES,

EXTRA TRIPLE,

SPECIAL.

ALL SORTS.



These are the rarest, choicest, and most delicate of all fragrant odours obtained from natural flowers.

2/6 each	doz.	20/
7/6 „	„	60/

In bond, 10 to 25 % discount.

Florida Water.



VERY FRAGRANT IN BOTTLES.

2	4	8 oz.
7/-	12/6	21/- doz.

In bond, 10 to 25 % discount.

Lavender Water,

FROM

FINEST MITCHAM OIL.



A most superior article in new style of bottle. Made from the finest English Mitcham Oil.

2	4	8 oz.
12/-	21/-	38/- doz.

In bond, 10 to 25 % discount.

LAVENDER WATER,

TREBLE DISTILLED.

Fine "Old English."

1 oz. bots.	doz.	4/4
2 „	„	7/10
4 „	„	14/

Elegant litho. labels in colours with buyer's name.

BAY RHUM, GENUINE AMERICAN.

AS IMPORTED.

Winch. quarts	lb.	4/
2 oz. bots., 1/	doz.	5/9
4 „	„	9/
Large fancy bots., to retail at 2/6 ..	„	20/

We ship above Perfumery in Bond, reducing prices as stated. The excellent quality of our Perfumes and their stylish finish, combined with our moderate prices, command a ready sale wherever introduced. The minimum quantity that can be shipped in bond is 2 gallons, about 18 lb. net, and the bottles (excepting Eau de Cologne, Lavender Water and Florida Water) must be of 1 oz. capacity, and increase by multiples thereof.

AMMONIA, HOUSEHOLD.



This is a most satisfactory preparation, handsomely got up with label available for Chemist's name on 3 dozen.

12 oz. bots., India-rubber Corks, 7/doz.
78/ gross.

HAIR WASH,

ERASMUS WILSON'S.



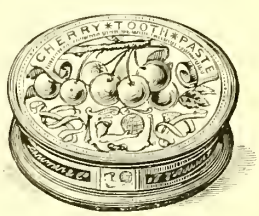
This is prepared from the

ORIGINAL FORMULA,

each bottle in a costly carton, with artistic design in colours.

4	8 oz. bots.
9/-	17/- doz.

Areka Nut, Cherry, or Eucalyptus Tooth Paste.



6d. pots	doz.	3/4 ..	gross	34/
9d. „	„	5/4 ..	„	60/
1/ „	„	7/6 ..	„	90/

The 9d. and 1/ pots have burnt-in lids.

From "The British and Colonial Druggist," May 26th, 1888.

"We found in several rooms a number of the staff engaged in bottling various galenica's and drugs in everyday use for retail. The firm do an immense trade in these goods, and

From the "Supplies Journal," August 15th, 1884.

"Specialities possessing distinguished characteristics that have met with the most cordial acknowledgments of their merits from competent judges, and from all who have given them a

PERFUMERY & TOILET REQUISITES.

ANTISEPTIC NURSERY POWDER	1/ boxes	doz. 5/9
BRILLIANTINE, WHITE ROSE, OR JASMIN, special quality	1 oz. bots., stoppered	„ 7/
„ GOOD	2 „	„ 12/
	4 „	„ 20/
	1 „	„ 3/3
	2 „	„ 5/6
	4 „	„ 9/
CACHOU, AROMATIC	To retail 6d. each .	„ 2/6
CHALK, CAMPHORATED	1 oz. boxes	„ 1/3
lb. 1	2 „	„ 1/11
	4 „	„ 3/
	Handsomely decorated tins 6d.	„ 2/3
	„ „ „ 1s.	„ 3/9
	2 oz. bots.	„ 2/10
	4 „	„ 4/4
	8 „	„ 7/6
	6d. pots	„ 3/6
	1 oz. boxes	„ 1/6
	2 „	„ 2/6
	4 „	„ 4/
	6d. pots	„ 3/4
	9d „	„ 5/4
	1/ „	„ 7/6
CHALK AND ORRIS	6d., 1/, 1/6 3/3, 5/6	„ 9/
COLD CREAM OF ROSES .. .. lb.	12 oz. bots.	„ 9/
CREAM OF LILIES	2 bottles in each case, with full directions	„ 11/
EGG JULEP (for Shampooing the Hair) ..	Envelopes, 6d. each	„ 3/4
"ELECTRIC" HAIR DYE	1/ bots.	„ 7/6
FACE POWDER, WHITE ROSE ..	1d. boxes	„ 6d.
FRAGRANT ELIXIR, a fluid dentrifrice	3d. „	„ 1/5
FULLER'S EARTH	6d. „	„ 2/9
GLYCERINE & CUCUMBER EXTRACT lb.	6 1. bots., 2 oz. ..	„ 2/10
GLYCERINE AND CUCUMBER CREAM	1/ „ 4 „ ..	„ 4/3
	2/ „ 8 „ ..	„ 7/6
GLYCERINE JELLY, WHITE OR PINK, ROSE PERFUMED	4 and 8 oz. blue flat bots. .. doz. 3/8	6/6
HAIR DYE, GOLDEN	6d. white metal screw-top bots .. .. doz.	3/
HAIR OIL, FINEST PERFUMED	1/ stoppered bots.	„ 5/6
	2 oz. bots.	„ 4/
	4 „	„ 7/6
HAIR RESTORER, REEVE'S	Reputed ½-pints ..	„ 3/6
HAIR WASH, ERASMUS WILSON'S ..	„ pints ..	„ 6/
„ „ ROSEMARY AND CANTHARIDINE	„ quarts ..	„ 9/
„ „ SANOLINE (Nursery Fluid)	Gallon	„ 3/
INHALERS, DR. GARROD'S POCKET	12 oz. bots. 1s. each	„ 6/6
LIP SALVE	Bots.	„ 9/
LIME JUICE AND GLYCERINE	„	„ 17/
	10 oz. b ts.	„ 6/6
MILK OF ROSES	6 oz. bots.	„ 6/
POMADE, LANOLINE	.. ..	„ 7/6
„ „	6d. pots	„ 3/
„ NUTRITIVE	3 oz. bots.	„ 2/2
	4 „	„ 2/6
„ VASELINE	6 „	„ 3/6
„ FLORAL	8 „	„ 4/3
„ FRENCH No. 30. CASSIA ROSE JASMIN ORANGE, TUBEREUSE	4 and 8 oz bots. doz. 3/8	6/6
„ „ VIOLETTE	6d. pots .. .. .. doz.	4/3
SACHETS (fancy bags)	1/ „	„ 7/6
SANOLINE (Registered), a pure Petroleum Jelly	2 oz. patent screw-cap bots.	„ 2/8
	4 „ „	„ 4/6
„ POMADE	2 oz. bots.	„ 2/6
„ BOUQUET. The most lasting bouquet	4 „	„ 4/6
„ COLD CREAM	2 oz. fancy jars ..	„ 3/2
„ COAL TAR SOAP AND TOILET SOAP	4 „ „ ..	„ 5/6
„ HAIR WASH	1 lb. tins .. .. .. lb.	6/6
„ SANITARY FLUID	1 „	„ 9/6
	6d. & 1/ .. .. lb. 3/6	6/6
	2 oz. bots. in carton doz.	3/2
	4 „ „	„ 5/
	1d. tins 6/, ten gross	5/
	2 oz. bots. in carton doz.	3/2
	4 „ „	„ 5/
	1d. decorated tins gross	8/
	2/6 bottles .. .. doz.	20/
	Pots .. .. .. „	3/6
	Boxes of 3 doz. (7 lbs.) „	2/3
	Cartons of 3 tablets „	2/6
	1/ bottles .. .. doz.	6/
	8 oz. and 16 oz. bots doz.	3/10 & 5/6



EUCALYPTOZONE.

A perfect antiseptic inhalation.

2 oz. green glass, glob. stoppered, 7/-

This contains Oils of Eucalyptus, Pinus Sylvestris, Pinus Pumilionis, Carbolic Acid, &c. The bottles are best English make; the labels very artistic, with space for chemist's name.

GLYCERINE, PURE,

REDISTILLED S.G. 1·260.

CHEM. PURE.

2 cwt. drums	cwt.	52/	
56 lb. tins, 4 in case ..	„	55/	
1 oz. weight, doz. 1/10, gross		19/	
2 „	„ 2·6	„	28/
4 „	„ 3/4	„	37/
8 „	„ 6/	„	66/
16 „	„ 10/4	„	111

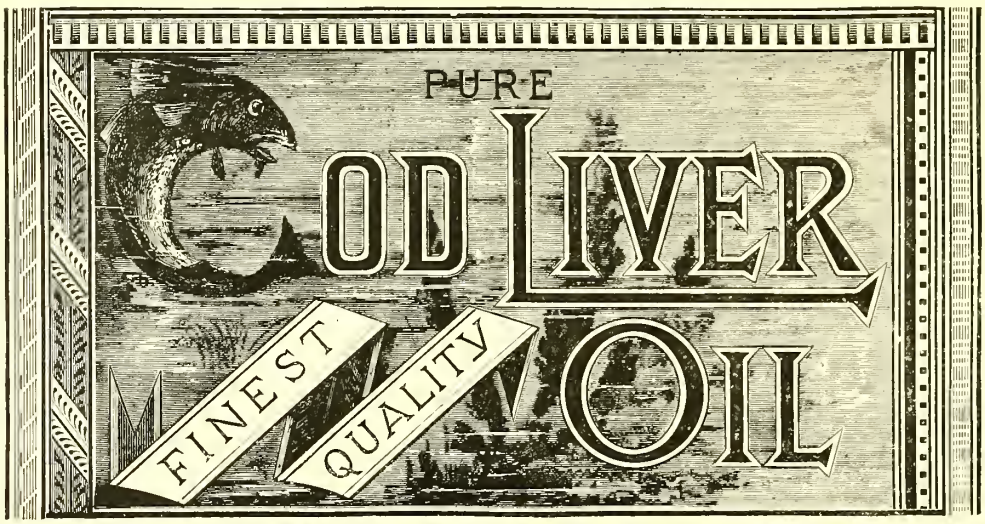
5 gross assorted, in one Gel very, 3/- gross less.

BOTTLES are white flint glass, up to 8 oz. 12 bottles in strong carton.

LABELS in a large variety of artistic designs for buyer's names.

SANOLINE TOOTH PASTE	1/6 pots	doz. 9/
„ „ POWDER ..	1/ boxes	„ 6/
„ FLUID DENTRIFRICE	2/ bots.	„ 7/6
„ CAMPHOR ICE	6d. tins	„ 3/6
SMELLING SALTS, THE EVER-LASTING	6d. bots.	„ 3/6
	1/ „	„ 7/
„ „ LAVENDER OR COLOGNE	1/ „ watch shaped	„ 7/6
	1/ bots.	„ 5/
SHAVING CAKES, prepared with Lanoline	2/6	„ 9/6
„ CREAM, superfatted	In round tins 1/6 .	„ 10/
"SUNNY HUE," LECOUTEUR'S, for producing golden-coloured hair	In 2 oz. round pots, burnt-in labels	„ 8/6
	4 and 8 oz. fancy bots.	doz. 21/ 39/
SWEET LAVENDER PERFUME ..	2, 4 and 8 oz. bots.	doz. 12/ 21/ 38/
TOILET VINEGAR	2 oz. bots.	doz. 5/6
TOOTH POWDERS, ASSORTED	4 „	„ 9/
	Turned wood boxes	„ 2/6
	„ „	„ 4/
	„ „	„ 7/6
„ „ EUCALYPTUS & CAMPHOR	6d. tins	„ 3/
„ „ CARBOLIC ..	1/ „	„ 6/
TOOTH SOAP, "THE FRAGRANT" ..	In round cakes, each in Ivorine gold embossed case, 1/6 each, doz. 10/ .. .. gross	108/
„	In round 1/ tins doz. 6/ .. .. „	60/
„ „	In 6d. tins doz. 4/6 „	48/
TINCTURE OF MYRRH WITH EAU DE COLOGNE	2 oz. bots. .. .. „	6/
VANILLINE CREAM, a preparation of Lanoline, for softening the skin	4 „ .. .. „	11/6
	2 oz. screw top opaque bots. .. .. .. doz.	6/6
VIOLET POWDER	1d. boxes .. .. gross	6/
	3d. „ .. .. „	18/
	6d. „ .. .. „	36/

LORIMER & CO., Manufacturing Perfumers & Exporters, Britannia Row, LONDON, N.



8 oz. bots.,
8/6 doz.

16 oz. bots.,
15/- doz.

½ gall. bots.,
5/9 gall.

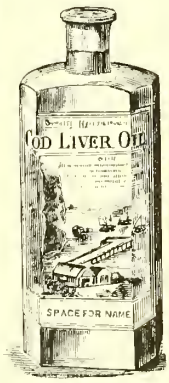
5 to 10 % discount.

Lorimer's Cod Liver Oil always bears above design on Labels.

SEASON 1893.

"Smells like new Milk. We have tried it alongside other samples, none of which have this characteristic sweetness."—From a firm of Pharmaceutical Chemists, *April*, 1884.

This Oil maintains the above character, is almost "devoid of colour, taste, or smell," and always selected with a special view to its keeping properties. Some cheap Oils become rancid quickly, whereas this Oil keeps sweet and good.

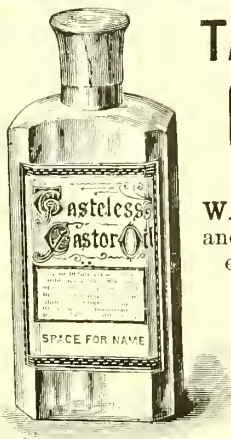


For LORIMER'S COD LIVER OIL, see above.

PURE NORWEGIAN COD LIVER OIL.

THIS IS THE FINEST 1893 OIL. Will not be affected by cold, and is almost free from colour, taste, or smell. Put up in oval, round, or flat bottles, with a large selection of artistic labels available for buyer's name. Finest quality.

	4	6	8	16 ounce.
Wrapped and each dozen in carton ..	3 -	4 -	4 6	8 3 dozen.
Each bottle in strong carton	3 6	4 6	5 -	9 - ,,



TASTELESS ITALIAN Castor Oil, FINEST POSSIBLE QUALITY.

WATER-WHITE, FREE from taste and smell, while retaining all the efficacy of ordinary **CASTOR OIL.**

lb., 6d.; cwt. in cases, 50/-

White or Blue Ovals or "Rounded" Flats, Long-necked White or Blue Rounds, or any other style of bottle, handsomely wrapped and labelled with Buyer's Name.

1 oz. bottles	1/6 dozen.	Boxes of 1 dozen.
2 ,, ...	2 - ,,	
4 ,, ...	3 6 ,,	
6 ,, ...	5 - ,,	Boxes of ½ dozen.
8 ,, ...	6 - ,,	

CASTOR OIL,

"THE PERFECT."

1 oz. bottles	1 9 dozen.	5% discount.
2 ,, ...	2 7 ,,	
4 ,, ...	4 4 ,,	
8 ,, ...	8 - ,,	

Above is the **FINEST** possible Italian Oil (same as quoted opposite), and is only put up bearing our own name on labels.

FINE EAST INDIAN CASTOR OIL,

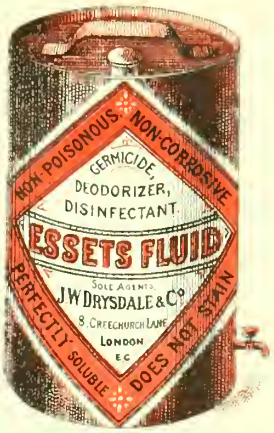
IN BOTTLES, CAPSULED.

1	2	3	4	6	8	16	22 ounce.
1 4	2 2	2 8	3 -	4 2	5 -	9 7	12 6 dozen.

Above is the ordinary long-necked dark blue bottles.

LORIMER & CO., Manufacturing Chemists and Wholesale Druggists, LONDON, N.





NON-POISONOUS. NON-CORROSIVE.

GERMICIDE,
DEODORIZER,
DISINFECTANT.

ESSETS FLUID

SOLE AGENTS.
J.W. DRYSDALE & Co
8 CREECHURCH LANE,
LONDON.
E.C.

PERFECTLY SOLUBLE. DOES NOT STAIN.





P. T. O.

REPORTS ON
ESSETS FLUID

The **Lancet**, 1st July, 1893.—**Essets Fluid, Germicide, Antiseptic, &c.**—Compounds of the type of the above fluid have been largely appreciated as active and agreeable disinfectants. One commendable feature of this fluid is that it is practically non-poisonous, consisting largely of the homologues of phenol, rather than of true phenol itself, which, of course, is distinctly poisonous. It is a clear dark brown fluid, with a strongly alkaline re-action, giving rise to a perfectly uniform milky emulsion when diluted with water. Essets Fluid affords an efficient disinfectant and antiseptic, and has the further advantage of being very convenient to use both for surgical and ordinary purposes.

From the DUCHESS OF NEWCASTLE. CLUMBER-WORKSOP, NOTTS,
22nd May, 1893.

Essets Fluid has been used in my Kennels and has given great satisfaction as a Disinfectant.
Messrs. J. W. DRYSDALE & Co., London. KATHLEEN NEWCASTLE.

25, ALBEMARLE STREET, PICCADILLY, W.,
Messrs. J. W. DRYSDALE & Co. *16th May*, 1893.

DEAR SIRS—For many months now I have used Essets Fluid in all surgical operations with the greatest comfort and success. Comfort, for it does not benumb and wither the hands like Carbolic Acid; and success, for I have never seen healing take place so rapidly as under its influence.—Yours truly, GEORGE HASTINGS, M.D.

INVESTIGATION BY

BOVERTON REDWOOD, F.R.S.E., F.I.C., and A. J. DE HAILES, F.I.C, F.C.S.

We have made a chemical examination of the disinfectant known as ESSETS FLUID, and have subjected the material to a series of practical tests with a view of ascertaining its properties in relation to the objects for which it is intended.

We have satisfied ourselves that the fluid exercises a true germicidal action in a high degree, and that a relatively small quantity suffices to prevent the development of bacteria in putrescible substances.

ESSETS FLUID may therefore be regarded as a thoroughly trustworthy germicide and antiseptic, and as the result of our examination we are enabled to express a very favourable opinion of the material.

The disinfectant being readily miscible with water may conveniently be applied in any required degree of dilution, and may therefore be employed economically.

We have undertaken to report upon this material on the understanding that as long as our certificate is made use of, we are at liberty to satisfy ourselves by periodical examination of samples obtained by us through ordinary business channels that the quality of the disinfectant is fully maintained.

BOVERTON REDWOOD,
A. J. DE HAILES.

ESSETS FLUID.

THE STRONGEST KNOWN DISINFECTANT, GERMICIDE, ANTISEPTIC AND DEODORISER. NON-POISONOUS, NON-CORROSIVE, DOES NOT STAIN.

Endorsed and Recommended by the Highest Medical, Scientific and Sanitary Authorities.

PRICES OF ESSETS FLUID TO THE TRADE.

Bottles (10 oz)	..	..	..	..	..	Retail Prices,	1/0	..	..	Trade Prices,	7/0 per doz.	
½ Gallon Drum (Drum included)				..	..	,,	,,	2/6	..	..	,,	,,	1/10 each.	
1 ,,	,,	,,		..	..	,,	,,	4/0	..	..	,,	,,	3/0	,,
2 ,,	,,	,,		..	..	,,	,,	7/6	..	..	,,	,,	5/8	,,
5 ,,	,,	,,		..	..	,,	,,	19/0	..	..	,,	,,	13/4	,,
10 ,,	,,	,,		..	..	,,	,,	36/6	..	..	,,	,,	25/8	,,
Casks, 40 Gallons (Cask included)				..	..	..	..	..	..	..	,,	,,	2/0 per Gall.	

Terms:—Cash Discount 2½ % Monthly. Delivered free in London. For the Country, free on Rail, or at Wharf.

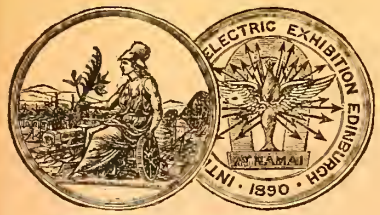
TO BE OBTAINED THROUGH ANY OF THE WHOLESALE HOUSES.

SOLE AGENTS:

J. W. DRYSDALE & Co., 8, Creechurch Lane, London, E.C.

SEASON 1893. **SEASON 1893.**

ABSTRACT OF PRICE LIST.



Silver Medal, Edinburgh, 1890.

BOTH HIGHEST AWARDS.



Gold Medal, Jamaica, 1891.

THE

Wandsworth Chemical Works,

Limited.

Manufacturing Chemists,

WANDSWORTH, LONDON, S.W.

"PINEOTAS" DISINFECTANTS.

"PINEOTAS" DISINFECTING POWDER.

½-lb. Packets, handsomely labelled, 6/6 per gross.
1-lb. ,, ,, ,, 12/- ,,
Handsome Large Decorated Tins, to retail at 1/- each, 5/- per doz.
Do. do. do. double size, to retail at 1/6 each, 7/6 per doz.
In ¼-cwt. Bags or Casks ... ... 3/- each.
In ½-cwt. ,, ,, ... 5/- ,,
In 1-cwt. ,, ,, ... 8/6 ,,
1 ton lots and upwards, £7 per ton.

"PINEOTAS" DISINFECTING FLUID.

(Miscible with cold Water).
For use in Sick Rooms, &c.
½-pint Round Bottles ... ... 4/6 per doz.
1-pint ,, ,, ... 8/- ,,
In Drums, Jars, or Casks ... ... 3/6 per gall.

"PINEOTAS" CRUDE FLUID.

Recommended for Disinfecting Drains, Sinks, Stables, W.C.'s, &c.
½-pint Round Bottles ... ... 4/6 per doz.
1-pint ,, ,, ... 8/- ,,
In Drums, Jars, or Casks ... ... 3/6 per gall.

"PINEOTAS" DISINFECTING OIL.

"PINEOTAS" DISINFECTING SAWDUST.

"PINEOTAS TOOTH POWDER.

(Most refreshing.)

"PINEOTAS" DISINFECTING SOAP.

"PINEOTAS" ANTISEPTIC TOILET SOAP.

"PINEOTAS" DISINFECTING SOFT SOAP.

CARBOLIC DISINFECTANTS.

CARBOLIC POWDER.

Pink or Grey Powder.

	No. 1.	No. 2.	No. 3.
	s. d.	s. d.	s. d.
½-lb. Packets per gross ...	5 6	7 6	8 6
1-lb. ,, ,, ...	9 6	13 0	15 0
Handsome Large Round Black and Gold Decorated Tins, to retail at 9d. or 1/- each ... per doz.	4 6	6 0	
Ditto ditto (About Double Quantity.) To Retail at 1/- or 1/6 ea. per doz.	6 0	7 6	
1-cwt. Bags or Casks ...	5 0	7 0	8 0
1-ton lots and upwards ...	£4	£5 10	£7 10

White 15 per cent. Carbolic Powder.
½-lb. Packets ... ... per gross 8/6
1-lb. ,, ... ,, 15/-
Ditto in Tins ... 6d. size, 2/6 per doz.
,, ,, ... 1/- ,, 4/- ,,
,, ,, ... 1/6 ,, 7/- ,,
In Bags or Casks ... ... per cwt. 9/6

CRUDE CARBOLIC ACID.

½-pint Patent Stoppered Bottles... 4/- per dozen.
1-pint ,, ,, ,, ... 8/- ,,
1-quart ,, ,, ,, ... 14/- ,,

	Per Gallon.		
	s. d.	s. d.	s. d.
Crude (Strong) Carbolic Acid, in Tins or Drums 1 to 10 gallons each ...	1 0	1 3	1 6

Special quotations for 40 to 42-gallon casks.

CARBOLIC DISINFECTANTS.

SANITARY FLUID OR CREOSOL.

(Making a pleasant Milky Fluid). Immediately soluble in cold water. Most efficacious.

½-pint Patent Stoppered Bottles ... 4/- per doz.
1-pint ,, ,, ,, ... 8/- ,,
1-quart ,, ,, ,, ... 14/- ,,
8-oz. Bottles, in Cardboard Cases... 5/6 ,,
16-oz. ,, ,, ,, ... 10/- ,,
In Tins or Drums, 1 to 10 gall. each, 2/- and 2/6 per gallon.
In 40 to 42-gallon casks ... 1/6 and 2/- per gallon.

PINK SOLUBLE CARBOLIC FLUID.

(Miscible with cold water).

½-pint Patent Stoppered Bottles ... 3/6 per doz.
1-pint ,, ,, ,, ... 7/- ,,
1-quart ,, ,, ,, ... 13/- ,,
In Tins or Drums, 1 to 10 gallons each, 1/6 and 2/- per gallon.
Special quotations for 40 to 42-gallon casks.

CHLORIDE OF LIME.

In neat, air-tight and waterproof packages. Will keep any length of time in any climate.

1d. Packets ... ... 8/- per gross.
½-lb. ,, ... 20/- ,,
1-lb. ,, ... 39/- ,,
1-lb. Tins, paper labels... ... 3/- per dozen.
1-lb. Sealed Bottles ... ... 3/9 ,,
2-lb. ,, ... 7/6 ,,
In Jars (28-lbs.) ... ... 12/- per cwt.
Also in casks at Market Rates.

REFINED PALE CARBOLIC ACIDS.

95 to 97 per cent. Pale Straw-coloured Acid.

½-pint Oval Patent Stoppered Bottles, 5/6 per doz.
1-pint ,, ,, ,, 9/- ,,
1-quart ,, ,, ,, 18/- ,,
In Tins or Drums, 1 to 10 galls. each, 2/6 per gall.
Special quotations given for 40 to 42-gallon Casks.

WHITE (Colourless) CARBOLIC ACID.

Free from Sulphuretted Hydrogen. 97 to 99 per cent. No. 5.

8-oz. Blue fluted Bottles, in Cardboard Cases } ... 6/9 per doz.
16-oz. ,, ,, ... 10/- ,,
In Tins or Drums, 1 to 10-galls. each 3/6 per gall.
Special quotations given for 40 to 42-gall. Casks.

CARBOLIC ACID CRYSTALS, 35o/c and 40o/c.

(Glacial or Detached.)

In 1-lb. and 7-lb. Bottles and Iron Drums, various sizes, at Market Prices.
Special quotations upon application.

RED INODOROUS FLUID.

(Similar to Condy's).

½-pint Patent Stoppered Bottles ... 4/- per doz.
1-pint ,, ,, ,, ... 8/- ,,
1-quart ,, ,, ,, ... 13/- ,,
In Tins or Drums, 1 to 10-gallons each, 1/6 and 2/- per gallon.
Special quotations given for 40 to 42-gall. casks.

Carbo Cresol Lacquer. A soluble Disinfectant for painting Surfaces of Urinals, &c. At 3/6 per gall.
Sulpho Carbolic (soluble in water), in 40 to 42 gallon casks. 3/- per gallon.
Carbolic Jelly (contains no animal fat). A splendid Ointment. In 1/- boxes. Price 7/- per dozen.
Carbolic Tooth Powder (pleasant perfume), 5 per cent. acid, in handsome extra large gold or silver patent boxes. To Retail at 6d. and 1/- each. Price 3/- and 6/- per dozen.

CARBOLIC SOAPS.

PETROLEUM JELLY,

(PARAFFINUM MOLLE.)

GOLDEN, RED, YELLOW, AND WHITE.

SHEEP DIPS.

SAFE, RELIABLE, AND EFFECTIVE.

OILS AND GREASES.

Wholesale and Export Buyers.—Special Quotations for Large Quantities. Any of our Goods can be put up with any Name and Brand, &c., by agreement.

The Wandsworth Chemical Works, Limited,

WANDSWORTH, LONDON, S.W.



SMITH'S

"PERFECT"

WEED KILLER.



ALL OUR MANUFACTURES BEAR THESE REGISTERED TRADE MARKS.



ALL OUR MANUFACTURES BEAR THESE REGISTERED TRADE MARKS.



A TRUE GARDENER'S FRIEND.

USED IN THE GARDENS OF

Her Majesty the Queen. H.R.H. The Duke of Edinburgh.
H.R.H. The Duke of Connaught. H.R.H. Prince Christian.

At the Royal Gardens, Kew, and the Royal Horticultural Society's Gardens. At Hampton Court Palace, and in the Gardens of all the leading Nobility and Gentry throughout the Kingdom.

THE MOST EFFECTIVE PREPARATION EVER INVENTED

FOR PERMANENTLY DESTROYING

WEEDS, MOSS, DANDELIONS, &c., &c.,

On Garden Walks, Carriage Drives, Stable Yards, Church Yard Paths, Railway Stations, Cemeteries, Cinder Tennis Courts, Public Gardens, etc., etc., without disturbing the Gravel; also for Destroying Plantain on Lawns, etc.

COMPLETE SATISFACTION GUARANTEED to all using WEED KILLER bearing our Trade Marks, without which none is genuine.

REFUSE IMITATIONS. It will keep the Weeds away for the whole season. May be applied with an ordinary Watering-can. Free from smell, leaves no stain, and makes the gravel bright. Saves many times its cost in labour, and eradicates the Weeds far more thoroughly than any hand-weeding.

The FIRST WEED KILLER EVER OFFERED TO THE PUBLIC.

In spite of the many imitations it still continues to take the lead, and is on all sides acknowledged to be the CHEAPEST AND BEST.

MOST LIBERAL TRADE TERMS TO CHEMISTS.

ADVANTAGES TO AGENTS NOT OFFERED BY ANY OTHER FIRM.

WRITE FOR PARTICULARS AND PRICE LISTS.

Sole Proprietors and Manufacturers: **MARK SMITH, Ltd., Louth, Lincs.**

(Mark Smith, Louth, & the Horticultural & Agricultural Chemical Co., Glasgow, amalgamated.)

SEE OTHER SIDE OF THIS LEAF

PATENT

SMITH'S "PERFECT"

PATENT

POWDER ✣ WEED ✣ KILLER.



A Scientific Triumph.

Nothing like it ever seen before!

Immediately Soluble in cold water!

One Small Tin the size and style of the illustration makes 25 Gallons for use.

✣

Leakage Impossible!
Each Tin a Measure!

✣

ALL TINS FREE.
No Return Empties.

Sold in handsome enamelled Tins, size and style of illustration.

Retail Prices—1 tin 1/9 per tin, 4 tins 1/6 per tin, 8 tins 1/5 per tin, 12 to 20 tins 1/4 per tin.

THE WEED KILLER OF THE FUTURE.

Only One-Eighth the Bulk & One-Fifth the Weight of the Liquid Preparations.

THE ONLY WEED KILLER ADAPTED FOR EXPORTATION.

Agents will at once appreciate the above enormous advantages. The bulky and heavy nature of the Liquid Weed Killers, the space required for storage, the possibility of leakage, and above all, the TROUBLE, EXPENSE, and LOSS connected with Returned Empties, have hitherto prevented some agents from Stocking or Selling Weed Killer at all. This Powder Weed Killer overcomes all these objections. No other preparation has a chance against it. Agents should stock at once. Sample Tin sent to any agent, carriage paid, on receipt of 1/6. Liberal trade terms on application.

SOLE PROPRIETORS: **MARK SMITH, Ltd., Louth, Lincs.**

(Mark Smith, Louth, & the Horticultural & Agricultural Chemical Co., Glasgow, amalgamated.)

SEE OTHER SIDE OF THIS LEAF.

Wm. Gray & Co.,

Hull,

Manufacturers of

Ready Mixed and other Paints,

Oil Refiners, White Lead & Varnish Manufacturers,

Wholesale Lead, Glass & Plumbers Factors.

What is Mightier than the Sword?

Cash.

Then if you wish to buy in positively the Cheapest Market and get thoroughly satisfactory quality ask for a Quotation from us and you can easily see by comparison that

We Stand First for Cheapness & quality is equal to any maker in the World.

WM GRAY & COMPY HULL.

SHEET LEAD & PIPE MAKERS.

WHOLESALE

PLUMBERS WAREHOUSEMEN

PAINT OIL COLOUR & VARNISH MANUFACTURERS.

SAMPLE OF LETTERS CONSTANTLY RECEIVED BY US:

"If you supply all material of equal quality to "Goods we have just had from you, we shall be able "to deal constantly with you. We are very pleased "with them and the price."

We are now Publishing complete Catalogue, Price 2/6, or given FREE to all Purchasers of £10 worth of Goods.

CLASS CUTTERS' BOOK OF MEASUREMENTS, and other Trade Information, 1/6 each, will be ready shortly.

ENAMEL PAINTS MADE TO ANY TINT.

All Paints Packed in Patent Tins from 1 to 28 lbs.

"WHAT IS THE TRUTH?"

"We claim to be the Cheapest House in the Trade." But this is what a great many business houses state in advertisements. We ask you to send a **Post-card,** stating your requirements, for **anything** used by **Plumbers, Painters, Oil** or **Colourmen;** and if you will compare, we are convinced that, taking the **excellency** of **quality,** together with as low price as any other which we quote you, business will result, and will prove our assertion to be correct.

Sheet and Polished Plate Glass.

GLASS SILVERERS, EMBOSSERS, BRILLIANT CUTTERS.

LEAD AND TIN PIPE AND SHEET MAKERS.

Paints, Enamels, Patent Dryers and Genuine White Lead Manufacturers.

LINSEED OIL BOILERS AND PUTTY MAKERS.

Sanitary Closet or Galvanized Cisterns and Tanks.

Plumbers' Brasswork, only BEST Quality.

WM. GRAY & Co., HULL.

Gray's of Hull,

Solicit your regular and constant custom, they ask it without scruple, knowing that no other firm can possibly quote lower, as we Manufacture & Import very largely and take as Our Motto,

Small Profits, Quick Returns,

We would rather sell to you 12 times a year and get 1/- profit each time, than 10/- and only get your order once.

Above will repay perusal.

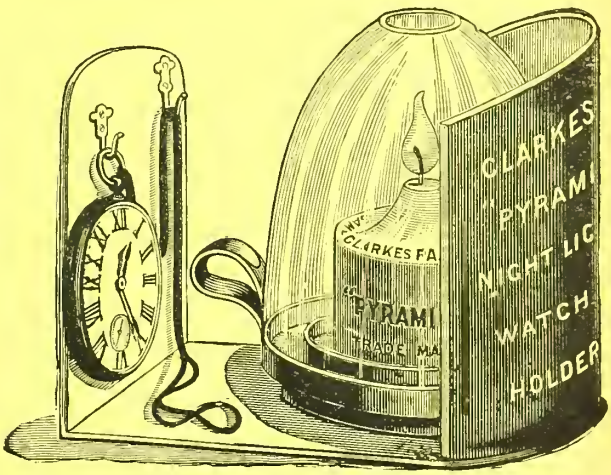
CLARKE'S

REGISTERED.

"PYRAMID"

Night Light Watch Holder.

	EACH.
Japanned Watch Holder and "Burglar's Horror" Lamp complete, Retail	2s. 6d.
Wholesale	1s. 2d.
Ditto without Lamp, Retail	1s. 6d.
Wholesale	0s. 8d.
"Burglar's Horror" Lamp, if with *Verre Moire* Shades, Retail	1s. ext.
Wholesale	6d. ,,



Invaluable at every Bedside.

The "BURGLAR'S HORROR."

CAUTION!

TO PREVENT BURGLARIES,

A "Pyramid" Night Light should be lighted in the front and back of every house as soon as it is dark. Housebreakers have the greatest dread of a light. The Police recommend a "Pyramid" Night Light as the best safeguard. Almost all the



Burglaries perpetrated might have been prevented and much **Valuable Property Saved**, if this simple and inexpensive plan had always been adopted. The "Pyramid" Night Lights are much larger and give **Double the Light** of the common night lights, and are therefore particulary adapted for this purpose. Manufactured in Patent Fire-proof Plaster Cases.

Clarke's "Pyramid" Night Lights burn 9 hours each. - - -

- - - 8 Lights in a box, 7s. 6d. per dozen boxes.

NO PARAFFIN or other DANGEROUS MATERIAL used in any of CLARKE'S LIGHTS.



THE strong objection to the ordinary Bronchitis Kettle is that a fire in the Bedroom is imperative, and the amount of steam emitted is greatly in excess of what is required. The "**FAIRY**" **COMBINATION INVALID'S LAMP** will diffuse the proper and an equal amount of steam throughout the night, by using the Double-Wick "Fairy" Lights (burning for ten hours, without any attention.

When the "**INHALER**" is required, simply remove the lid of the Kettle and place in the Inhaler, the contents of which will be kept at the proper temperature. The same instructions refer to the Registered China Pannikin when the Lamp is needed as a food warmer.

Clarke's Double-Wick "**FAIRY**" Lights (10 hours) should be used for the two former, and Clarke's "Pyramid" Lights (9 hours) are recommended for the latter.

Proper Disinfectants should be used in the "Bronchitis" Kettle or "Inhaler" only when medically advised.

N.B.—The "Fairy" COMBINATION Invalid's Lamp can be purchased with one or all of the appliances.

RETAIL PRICES.

Bronchitis Lamp - - -	6s. 6d.
Inhaler - - - -	2s. 6d.
Pannikin - - - -	1s. 6d.
Complete - - - -	10s. 6d.

WHOLESALE PRICES.

Bronchitis Lamp - - -	per doz. 48s. 0d.
Inhaler - - - -	" 20s. 0d.
Porcelain Pannikin - -	" 12s. 0d.
Complete - - - -	80s. 0d.

CLARKE'S * IMPROVED * PANNIKIN

REGISTERED.

FOR USE WITH

CLARKE'S "PYRAMID" Nursery Lamps.

LAMPS COMPLETE.

Retail 2/6, 3/6, 5/-, 6/-, and 7/6 each.
Wholesale 20/-, 30/-, 33/-, 36/-, and 48/- dozen.



By this invention any liquid food can be poured out or drunk without scum or grease passing through the spout and prevents spilling when poured into a Feeding Bottle so objectionable with all other Pannikins.

These Pannikins will fit all the old "Pyramid" Nursery Lamps, and can be purchased separately.







N.B.—Ask for CLARKE'S PANNIKIN, and see that his name and the registered number (Registered 91,241) is on the Pannikin, and Trade Mark, "Pyramid."

Price of Registered Pannikin, wholesale 8s., 10s., & 12s. per dozen.

CLARKE'S PATENT "PYRAMID" NIGHT LIGHTS

Are the only Lights suitable for these Lamps.

CLARKE'S ∴

(PROTECTED BY TWO PATENTS.)

Adjustable Bed-Tray,

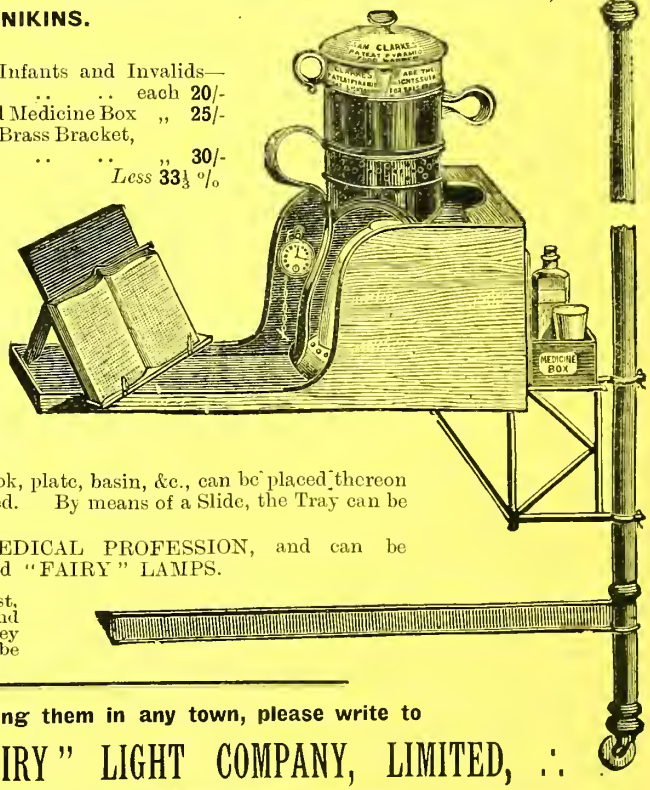
FOR INFANTS AND INVALIDS,

For use with CLARKE'S "PYRAMID" NURSERY LAMP FOOD WARMER,

WITH HIS NEW REGISTERED PANNIKINS.

PRICE OF TRAY.

ADJUSTABLE BED TRAY (protected by two patents) for Infants and Invalids—
In Polished Mahogany, with Iron Bracket .. .. each **20/-**
In Polished Mahogany, with Iron Bracket, Book Rest, and Medicine Box ,, **25/-**
In Polished Mahogany, with Brass Adjustable Book Rest, Brass Bracket, and Medicine Box .. .. ,, **30/-**
Less **33⅓** %



The above is an invaluable Invention, and useful appliance at the BED-SIDE, suitable for Invalids, and particularly for Parents whose INFANTS REQUIRE FEEDING DURING THE NIGHT. It obviates the necessity of getting out of bed, as everything required for use can be put on the Tray.

The Tray is adapted for use in connection with CLARKE'S "PYRAMID" FOOD WARMER, and when not required can be turned to the wall in such a manner as to SHADE THE PERSON IN BED FROM THE RAYS OF THE LIGHT.

Invalids will find it a GREAT COMFORT, for any book, plate, basin, &c., can be placed thereon ready for use, and obtained without altering the position in bed. By means of a Slide, the Tray can be pulled forward to the position or length required.

IT IS HIGHLY RECOMMENDED BY THE MEDICAL PROFESSION, and can be obtained from all dealers in CLARKE'S "PYRAMID" and "FAIRY" LAMPS.

DIRECTIONS FOR FIXING.—Place the Clips round the bedpost, insert the Thumb-screw in the square hole at the end of same, and screw as tightly as possible. The Clips being of spring steel, they will fit any size post. A little cloth or wash leather should be placed round the bed-post to prevent scratching the post.

If any difficulty is experienced in procuring them in any town, please write to

∴ CLARKE'S "PYRAMID" AND "FAIRY" LIGHT COMPANY, LIMITED, ∴

CRICKLEWOOD, LONDON, N.W.,

Who will give the Address of the nearest Agent.

Lines on Burning one of CLARKE'S "PYRAMID" NIGHT LIGHTS.

When nights are dark,
Then think of Clarke,
Who hits the mark precisely.
For his night lights
Create light nights
In which you can see quite nicely.

DAYLIGHT *versus* DARKNESS.

The Egyptian Pyramids they say,
Were built to show the stars by day,
Clarke's "Pyramid" Lights
so shine at night,
They keep e'en Burglars well in sight.
Nights dark and drear—we no longer fear,
Clarke's "Pyramid" Night Lights burn as clear—as Daylight.



No Paraffin or other Dangerous Material used in any of Clarke's Lights.

Clarke's "FAIRY" Lights Burn 10 hours each. 6 Lights & Glass in Box, 10/6 per doz. Boxes

J. G. INGRAM & SON, LONDON.

NEW TEAT NEW TEAT NEW TEAT NEW TEAT NEW TEAT NEW TEAT NEW TEAT NEW TEAT NEW TEAT NEW TEAT NEW TEAT NEW TEAT NEW TEAT NEW TEAT NEW TEAT

THE LATEST PRODUCTION

OF THIS WELL-KNOWN FIRM

IS THE

NEW PATENT TEAT

FOR INFANTS' USE.

Most admirably adapted for Bottles and Soothers alike.

FOR INFANTS FOR INFANTS FOR INFANTS FOR INFANTS FOR INFANTS FOR INFANTS FOR INFANTS FOR INFANTS FOR INFANTS FOR INFANTS FOR INFANTS FOR INFANTS FOR INFANTS FOR INFANTS FOR INFANTS

Patented in England, America, and France.



Each Teat bears the No. of the English Patent. **22,458.**

Chemists will do well to see that their Feeding Bottles and Comforters, etc., are Fitted with this TEAT.

The advantages are numerous, as one glance at the sketch will prove.

Circulars for Chemists' Counters, Printed on Blotting Paper, may be had ad. lib.

The first Stock of these TEATS has been exhausted, therefore Orders should be sent early.

EXTRACT FROM A SHIPPERS' TRADE JOURNAL.

A HAPPY CHILD.

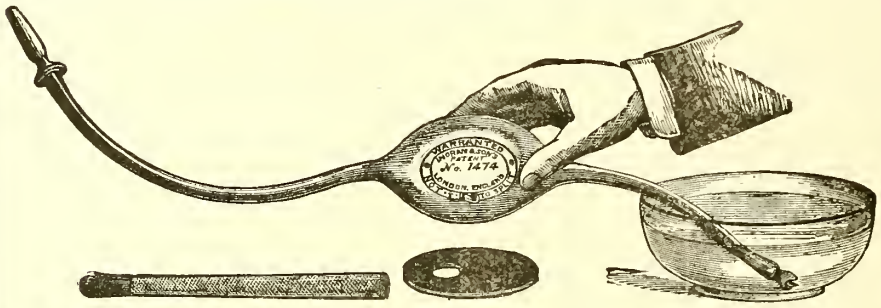
"As the child is, so will the man become," is an old and true saying, therefore it is highly essential that we should look after our children's future wellfare, both temporally and morally, by doing everything in our power that will make their lives happy and bright in infancy. A cross child will make a bad tempered man, unless that temper be checked, and much more depends on the mothers' and nurses' care than is generally allowed; many there are who say an evil temper is "bred in the bone," and do what you will you cannot kill it; granted, but that evil temper can be modified to an astounding extent by gentle care and loving attention. Nothing can be more conducive to a bad temper in a child, than for the nurse to let it lay in its cot, crying for hours at a stretch. We know well enough that in some instances the mother cannot give the necessary attention, as the other members of her little family require her care and presence, therefore many means have been devised for keeping the little one quiet and contented during the mother's compulsory absence. Toys and baby comforters of varied designs have been introduced with more or less success, and while the shape of the comforter, as a whole, has undergone many changes, the most important part of the whole concern, namely the "Teat," has been almost neglected, because the old fashioned style has answered the purpose to a certain extent, and both the trade and the public have allowed it to pass, giving greater heed to the appearance of the soother as an ornament; it being got up more to please the eye of the public than to study the interests of the child. We are, however, pleased to note that at last one firm has taken the matter up and produced a teat (with a rim or ridge around it) which has exceptional soothing properties; this teat will not irritate the most sensitive gums, and will allow the child to partly open its mouth to breathe **without the teat dropping out.** The mother can now go about her household duties feeling satisfied that her darling is contented and happy.

The shape of the teat is certainly unique, and its value should be tested to be appreciated, and when we notice that the patentees and manufacturers are Messrs. J. G. Ingram & Son, also patentees and manufacturers of the Seamless Enema, No. 1474, comment as to quality and workmanship would be out of place.

INGRAM'S 1474

IMITATION IS THE HIGHEST FORM OF FLATTERY.

Owing to the many imitations of our Patent Enema, we are compelled to warn all who wish for a **GENUINE INGRAM'S ENEMA,** to refuse any **that does not bear the No. 1474.**



It will take years of practice for fresh hands to make this Enema—it being far more difficult to manufacture than the ordinary Barrel Enema.

J. G. Ingram & Son have had **14** years' experience; therefore they do, with the utmost confidence, warrant every Enema of their manufacture bearing the number

1474.

Extract from the "BRITISH MEDICAL JOURNAL."

Messrs. J. G. Ingram & Son exhibited their Improved Higginson Enema and Syringe Apparatus. This enema apparatus possesses undoubted advantages, obtained by the mode of manufacture, which is accomplished by repeated dipping in a solution of India-rubber until the required substance is attained. This process adds greatly to its strength and durability, and at the same time dispenses with all seams. The disadvantage of splitting and leaking, which is often a great source of trouble with enema apparatus made of several pieces of sheet India-rubber cemented together, is thus in a great measure overcome. This enema is fitted with improved valves, which prevent the admission of air with the fluid, and has the further advantage that it can, at any time, be repaired if necessary.

Extract from the "LANCET."

NEW INVENTION.—IMPROVED ENEMA APPARATUS.

Messrs. J. G. Ingram & Son have produced an Enema made in one continuous piece. It is warranted not to split, which is a great point. Moreover, it is fitted with valves at the extremities of the suction and delivery tubes, so that no air can be drawn in while the Enema is refilling. The Inventors claim as advantages of the apparatus, that it is complete as Enema and Syringe, without any metallic connections or wire fastenings; and that it will resist the heat of tropical countries, will not split, nor become hard or sticky.

Extract from the "BRITISH MEDICAL JOURNAL."

INGRAM'S PATENT INDIA RUBBER ENEMA APPARATUS.

We have had an opportunity of examining this week the new India-rubber Enema apparatus made by Messrs. J. G. Ingram & Son. The advantages which these appear to possess over the India-rubber Enema apparatus, which are just now so largely used, are very practical. In the first place these instruments have no heavy metallic parts, and thus are free from the risk of damage to the Rubber from their metallic connections, which are often found to render the ordinary instrument useless from injury received either in transit or while lying in the drawer. Then, too, the wire fastenings, which in the ordinary apparatus frequently break and give rise to leakage and imperfect working, are in these India-rubber instruments of Messrs. Ingram's entirely dispensed with. The Enema instrument is formed by dipping in a solution of India-rubber, and thus the numerous joints in the bulb commonly met with are avoided. The ordinary instrument is made of several pieces cemented or fastened together, and they are apt to split, especially if left aside for some length of time and their use recommenced, or in cold weather. Messrs. Ingram's Apparatus are very smooth and uniform in surface, and could be packed in a smaller space than the ordinary instrument without damage to the tubes. They are also very light. On the whole, we think they will be found to be a very useful, and evidently a practical improvement.

9*th August* 1886.

In reply to your communication of the 14*th ultimo, I have to say that the 'Oleum Deelinæ' appears upon analysis of the sample submitted by you to be a pure drug, and, as such, to fall within the exemptions of such preparations contained in* 52 *Geo. III. c.* 150.

W. H. MELVILL, *Solicitor of Inland Revenue.*

CRAIGHOLM, UPPER CLAPTON, LONDON E.

I HAVE lately tried your 'Oleum Deelinæ' in a case of eczema with good results, and I am anxious to try it in other cases.

H. WHEELER, L.R.C.P. Lond., etc.

SOUTHPORT, 12*th December* 1887.

I HAVE tried 'Oleum Deelinæ' in a very bad case of eczema with the most satisfactory results. It is a very valuable preparation.

EDWARD BALL, L.R.C.P.

2 CHANTRY STREET, ANDOVER, HANTS.

'OLEUM DEELINÆ' is the only remedy I have found after five years' suffering from eczema.

HENRY WEIR.

FYDER, NEAR NEWPORT, 29*th May* 1888.

I AM very glad to say that the 'Oleum Deelinæ' has done much good in a case of obstinate eczema in a child where most of the ordinary remedies proved almost ineffective. I am sure this oil has a great future.

GEO. B. MASSON.

· For · the · SKIN ·

Oleum Deelinæ

ECZEMA · EXCORIATIONS · IMPETIGO · PHLYCTENES
PSORIASIS · PRURIGO · PITYRIASIS · PRICKLY HEAT
NETTLERASH · ITCH · PILES · ULCERS · RINGWORM
SCURVY · VARICOSE VEINS · BLOTCHES · PIMPLES
AND SKIN DISEASES OF EVERY DESCRIPTION.

DIRECTIONS FOR USE.—Rub gently on the parts affected either by the fingers or a camel hair brush. For internal application a Medical Practitioner must always be consulted.

Packed in Cases—One Dozen 1/6 Bottles
One Dozen 2/6 Bottles, or half of each.

For Hospital and Dispensary Purposes, in larger quantities.

Manufactured · solely · by · the · Proprietors

THE DEE OIL COMPANY LIMITED,
Works — SALTNEY, CHESTER, ENGLAND.

Extract from 'The Lancet,' 30*th November* 1889.

Chronic Eczema treated with Oleum Deelinæ. By Thomas F. Raven, L.R.C.P., Broadstairs.

William B——— at the age of three began to suffer from eczema; it originated, without doubt, from injudicious feeding. The face was first affected, and subsequently the whole surface of the body. At different times the limbs, back, face, and neck would be most severely attacked. The disease proved intractable for a number of years, during which time he was twice in hospital, under the care of one of the most eminent dermatologists, and although much good was gained at the time, the improvement was not maintained for more than a few weeks. In February of this year I commenced the use of 'Oleum Deelinæ.' It was first applied to the left forearm, and in forty-eight hours the result was so good that I had it painted over the whole affected surface—nearly half of the body—night and morning. In six weeks the disease was practically cured, after thirteen years' duration, and although the patient has some occasional reminders of the old enemy, and the skin is still harsh and thickened, yet he is now, after eight months, capable of doing a fair share of daily work as an artisan, while his general health, which had considerably suffered, is proportionately improved.

See Miss Ormerod's Report.

'SALVO PETROLIA,'

THE PERFECTION OF PETROLEUM JELLY,

MAY BE PROCURED RETAIL THROUGH ALL CHEMISTS AND DRUGGISTS,

AND IS

Manufactured solely by the Proprietors,

THE DEE OIL COMPANY

LIMITED,

SALTNEY, CHESTER, ENGLAND.

A LUXURY AND AN ESSENTIAL TO ALL SMOKING-ROOMS.

SALVO PETROLIA,

ABSOLUTELY GENUINE PARAFFINUM MOLLE OF THE VERY PUREST FORM, AND WE CLAIM THAT IT IS SUPERIOR TO VASELINE.

WE call attention particularly to its perfectly **odourless** and **tasteless** quality; and owing to its **genuine purity** may be prescribed by physicians not only for **external** but **internal** use. **'SALVO PETROLIA'** is manufactured **by ourselves, in this country,** by an entirely **new process,** and it is acknowledged to be the **finest Emollient** and **Remedial Preparation** of **Petroleum** yet produced. It has **never** been **touched** by **Acid** in any way during manufacture, and **complies** with all **requirements** which the **Pharmacopœia** makes upon **this article.**

Manufactured in five distinct qualities,

WHITE, LEMON, YELLOW, GOLDEN, and RED.

Packed in Tins, 1-4, 5, 7, 10, 14-28, 56, and 112 lbs.

EDIBLE SALVO PETROLIA.

Price 1/6 per Tube.

Invaluable to all Singers, Actors, and Public Speakers.

THIS is a beautiful preparation of White Paraffin Jelly, of absolute purity, and is an emollient of the highest value in the treatment of throat disorders. For public speakers, actors, and singers it is most valuable as a remedy for hoarseness.

Recommended by the Faculty as the perfection of a cosmetique for the face or pomade for the hair.

THE DEE OIL COMPANY LIMITED

Are the Sole Manufacturers of

WARBLE MAGGOT OINTMENT.

To be had from all Chemists.

Price 1/- per Tin.

DISINFECTANT CANDLES.

Price 1/6 per Box.

NO SICK-ROOM SHOULD BE WITHOUT THEM.

See Medical and Chemists' Testimony.

Are a New Method of employing Iodine for Antiseptic Purposes.

Eng: Grain, Specially Pure. Free from Fusel Oil

JAS. BURROUGH

OZONE WHISKEY (Irish)

DISTILLER

HERMIT WHISKEY (Scotch)

Chelsea, LONDON, S.W.

✱ Also One Star Quality, for TINCTURES. Highly Recommended

SVR

56 O.P.

60 O.P.

Special Quotations for above and other Strengths on application.

Methylated Spirit and Finish 61 O.P. & 64 O.P.

BEST AT LOWEST PRICES

Orange Wine, Malaga, Sherry and Port for Medicinal Uses

BURROUGH Cale Street Distillery CHELSEA

(Ozone Whiskey Stores) LONDON, S.W.

BURROUGH Cale Street Distillery CHELSEA

Fine S V R for TINCTURES (One Star Quality). Strongly Recommended.

OZONE and HERMIT
IRISH and SCOTCH
WHISKEYS

N.B.—Excise Request required with each order for Methylated Spirit.

FINEST

S V R

61 O. P. 64 O. P.

AND FINISH

AT SPECIALLY LOW QUOTATIONS ON APPLICATION

Finest Orange Wine, Malaga, Port & Sherry for Medicinal Uses

All other Wines, Spirits, Liqueurs and Cordials at Lowest Prices

FOR MEDICINAL AND DOMESTIC USES

JAS. BURROUGH
DISTILLER
CHELSEA, LONDON, S.W.

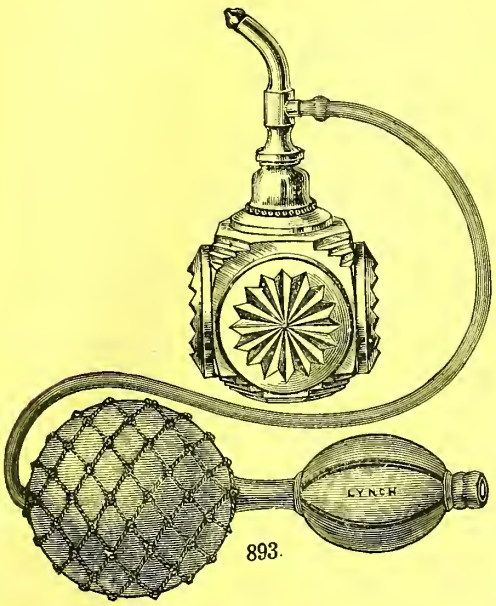
S V R
FOR TINCTURES,
(One Star Quality)

LYNCH'S "UPPER-TEN"

CRYSTAL PERFUME SPRAYS.

TRADE MARK.

SYDNEY. 1879



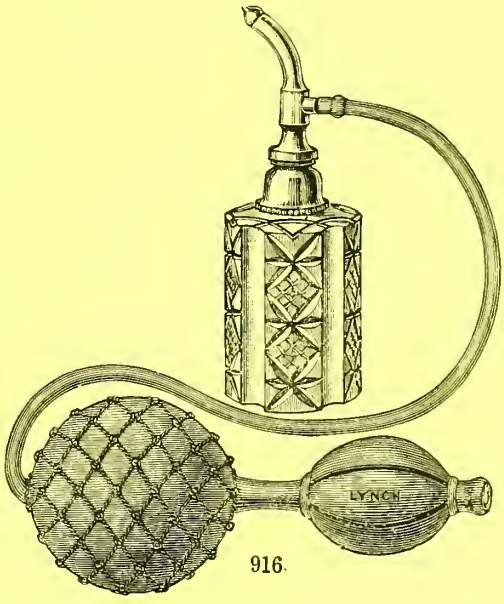
893.



895.



911.



916.

893	Globe shape,	gilt mounts	...	...	33/- doz.	...	...	...	Nickel mounts	...	...	30/- doz.
895	Pear ,,	gilt mounts	...	...	33/- ,,	...	...	...	Nickel mounts	...	...	30/- ,,
911	Square ,,	gilt mounts	...	...	32/- ,,	...	...	...	Nickel mounts	...	...	27/- ,,
916	Cylindrical shape,	gilt mounts	...	...	33/- ,,	...	...	...	Nickel mounts	...	...	30/- ,,

Each one packed in neat hinged box with double bellows.

Less Usual Discount.

LYNCH & CO., LIMD.,

192, ALDERSGATE STREET, LONDON, E.C.

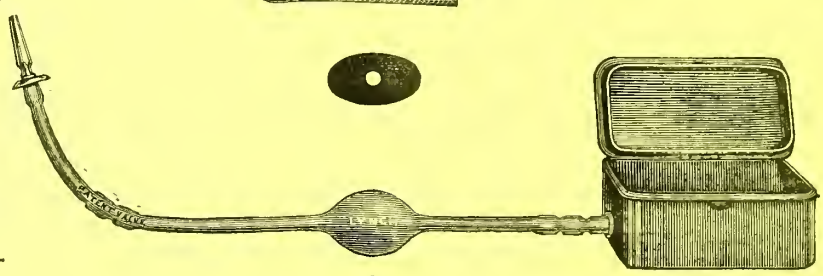
REVISED PRICES

OF

LYNCH'S IMPROVED ENEMAS.

54/- Doz.

LESS USUAL DISCOUNT.



438. PATENTED.

Dimensions: $6 \times 3\frac{3}{4} \times 2\frac{1}{4}$.

Capacity: One Pint.

		£	s.	d.
433C	Higginson's principle, Grey India Rubber, Barrel Shaped, complete with Bone Rectum Pipe, Elastic Gum Female Pipe, and Patent Leather Shield, in Slide Cedar Box per doz.	0	19	0
434	Ditto ditto Enamelled India Rubber ... ... ,,	1	10	0
434A	Ditto ditto ditto disconnecting mounts ... ... ,,	1	12	0
434A/1	Ditto ditto ditto 2nd quality, plain or disconnecting mounts ,,	1	8	0
445A/1	Grey Rubber in one continuous piece, without seams and warranted not to split ,,	1	4	0
435B/1	Ditto, Enamelled, green, black, or red ... ... ,,	1	8	0
435B/2	Ditto ditto in Oval Leather Boxes ... ... ,,	1	13	0
435D	Lynch's Enamelled India Rubber, made in one continuous piece, warranted not to split, and fitted with patent non-corrodible Glass Valves, complete with Bone Rectum Tube, Elastic Gum Female Tube and patent leather shield, in slide Cedar Box per doz.	1	10	0
435E	Ditto ditto ditto, in Oval Box of Cloth and Leather ... ... ,,	1	14	0
436	Lynch's Family Enema, India Rubber Parts as above, and fitted with Bone Seat Pipe, Elastic Gum Female Pipe and Elastic Gum Rectum Pipe for Children, all *to unscrew*, in Polished Mahogany Box ... ... per doz.	2	10	0
437	Ditto ditto, in Slide Cedar Box ... ... ,,	2	2	0
437A	Lynch's Perfection in Mahogany Box ... ... ,,	2	17	0
437B	Ditto, in Slide Cedar Box .. .. ,,	2	11	0
437C	Ditto, in Mahogany Box, with Lock and Key ... ... ,,	4	0	0
437D	Ditto, in Oval Boxes of Cloth and Leather ... ... ,,	2	16	0
437E	Ditto, including additional Pipes for Ear, Nose and Eye, in handsome Mahogany Box complete	4	10	0
438	**LYNCH'S PATENT SAFETY ENEMA.** The above Illustration represents an Enema which is arranged so that the box will form the reservoir for the fluid to be injected. By being used in this way any possibility of injecting air is avoided, owing to the fact that the suction end of Enema is screwed into bottom of reservoir. It is light and portable, and most suitable for travelling. The Enema is made of the finest quality rubber in one continuous length, and will last for many years with ordinary usage; it is also fitted with our patent non-corrosive glass valves. The reservoir which forms the box is made of metal, enamelled inside and out per doz.	2	14	0

Less Usual Discount.

LYNCH & CO., LIMD.,

192, ALDERSGATE STREET, LONDON, E.C.

LYNCH & CO., LIMITED,

SYDNEY. 1879.

Respectfully request the attention of Chemists and Druggists, at home and abroad, to the following lines, which are of exceptional merit, and worthy of consideration, both as regards price and quality.



DISPENSING BOTTLES,

Finest Quality, Round Edged, Quinine Tinted, Flat.

Plain or Graduated. In Original Crates or Casks.

No. 42a. (Ovals same prices.)

1	1½	2	3	4	6	8	10	12	16	20	24	32	40 oz.	
8/-	8/-	8/-	9/-	9/-	10/6	10/6	15/-	15/-	18/-	22/-	28/-	36/-	42/-	per gross.

Ordinary Quality Green Flint, Round Edged (Flats or Ovals).

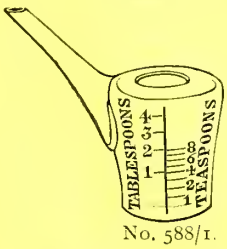
No. 42.

1	1½	2	3	4	6	8	10	12	16 oz.	
6/9	7/3	7/3	7/9	7/9	8/6	8/6	12/6	12/6	16/6	per gross.

Carriage paid to Bristol, Glasgow or Liverpool. Free in Docks in London.

STRICTLY NET CASH, MONTHLY A/C.

Export Orders should be accompanied by Draft on London Bankers at 30 days' sight.



No. 588/1.

COATES'S MEASURE.

(PATENT.)

Tumbler Shape, with Spout, and graduated to 8 Teaspoons and 4 Tablespoons, for administering medicine to an Invalid in a recumbent posture.

The Spout serves as a tongue depressor, and enables nauseous draughts to be taken without trouble by the most delicate person.

Price, per doz., 9/-. *Less Usual Discount.*



REDUCED PRICES OF NO. 89 POMADES.

White Flint, Nickel-plated Screw Caps.

½	1	1½	2	3	4	6	8 oz.	
12/6	13/6	14/6	15/6	18/-	22/-	30/-	35/-	per gross.

Less Usual Discount.

A new Edition of Catalogue, with many additional illustrations, will be published in the month of July. Chemists who are not on our books can have a copy by sending an application, accompanied by business card.

LYNCH & CO., LIMD.,

192, ALDERSGATE STREET, LONDON, E.C.

TRADE MARK.

SYDNEY. 1879.

LYNCH'S CLINICAL THERMOMETERS



896



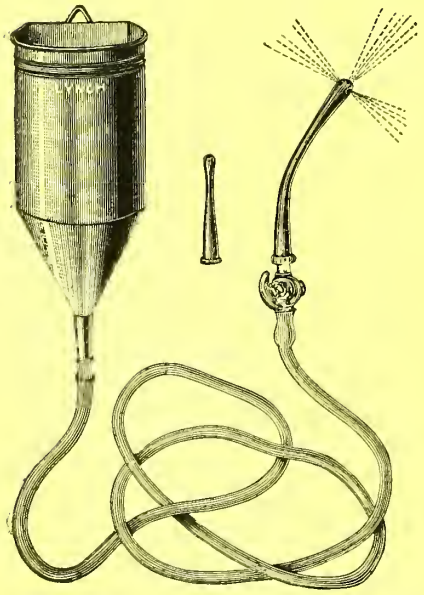
896D

896.	LYNCH'S guaranteed accurate, with indestructible index	per doz. 30/-
	Ditto, marked LONDON only	„ 21/-
896D	LYNCH'S guaranteed accurate, with lens front and indestructible index	„ 45/-
896E	Ditto ditto to take temperature in 30 seconds	„ 54/-

Less Usual Discount.

Any of the above may be stamped with customer's name and address free on orders of 1 dozen and upwards.

VAGINAL DOUCHES.



448/1	Vaginal Douche, Funnel Shaped, Bronzed, with 5 feet Grey India Rubber Tubing, Vaginal and Rectum Tubes and Stop-cock, 2 pints	3/-	each
Ditto	ditto ... ... 3 pints	3/6	„
448/2	ditto Glass Cistern, with 6 feet black India Rubber Tubing, Automatic Clip and Glass Vaginal Pipe, suitable for using with Corrosive Sublimate, &c. ...	5/6	„
448A	ditto Superior Quality Nickel Plated Cistern, and fitted as above, each 2 pints	6/-	„
Ditto	ditto ... ... 4 pints	7/-	„

Less Usual Discount.

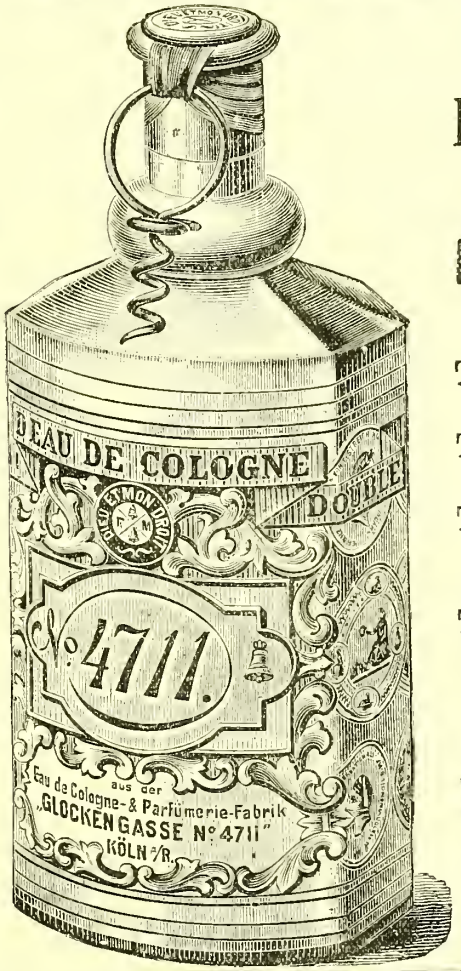
LYNCH & CO., LIMD.,

192, ALDERSGATE STREET, LONDON, E.C.

MULHENS' ORIGINAL No. 4711 BRAND
OF
EAU DE COLOGNE

THE
Blue & Gold Labelled
EXTRACT OF
DOUBLE STRENGTH
IS RETAILED AT THE
LONDON BRANCH
AT
2/6 per 4 oz. bottle
OR
12/6 per case of six.

HIGHEST AWARDS WHEREVER EXHIBITED.



THE
Blue & Gold Labelled
EXTRACT OF
DOUBLE STRENGTH
IS
The PUREST
The STRONGEST
The MOST LASTING
YET
The MOST DELICATE
EVER PRODUCED.

NEVER VARIES IN QUALITY.

ONLY FIRST PRIZE AT COLOGNE, 1875.

WHEN ORDERING DO NOT OMIT TO MENTION THE
No. 4711 AND THE BLUE AND GOLD LABEL.
OF ALL WHOLESALE FIRMS IN THE UNITED KINGDOM.

Manufacturer: FERD. MÜLHENS, 4711 Glockengasse, Cologne-on-Rhine.

BRANCHES AT NEW YORK, VIENNA, RIGA, ODESSA, AND
LONDON. 62 NEW BOND STREET, W.

Mr. R. T. REUTER, Wholesale and Export Agent. SHIPPERS are requested to communicate with Mr. Reuter. See also "The Chemist and Druggist" of 24 Dec., 1892, page 966.

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SOZIO & ANDRIOLI,

ESTABLISHED

GRASSE

STEAM WORKS FOR ALL KINDS OF

ESSENTIAL OILS

AND

RAW MATERIALS FOR PERFUMERS.

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HIGHLY RECOMMENDED:

OIL OF ORRIS, crystallising at +15° Réaumur.
, GERANIUM, twice rect. on Rose flowers.
, NEROLY BIGARADE, Pétale extra.
, CLOVES, true Bourbon.

OIL OF LAVENDER, Mont Blanc.
,, SPIKE LAVENDER.
,, THYME (Red and White).
,, ROSEMARY (for Eau de Cologne).
,, PATCHOULY.
,, SANDAL WOOD, &c., &c.

LARGEST IMPORTERS OF

OIL OF GERANIUM RÉUNION.
OIL OF VETIVERT RÉUNION.
OIL OF YLANG-YLANG RÉUNION.

FRENCH

Our well-known and very

STOCK KEPT

Sole Agent—MR. FREDK. BOEHM,

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(FRANCE).

SOZIO & ANDRIOLI,

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SPECIALITIES:

FLOWERS POMADES

OF

THE HIGHEST SATURATION.

CONCRETE ESSENTIAL OILS

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For Perfumers and Cachou Makers.

BEST BRAND FOR

ORANGE FLOWER WATER AND ROSE WATER.

PERFUMES

superior compositions.

IN LONDON.

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(FRANCE).

LONDON: 4 CULLUM STREET.

NOTICE!!

THE FIRM of MARIA CLEMENTINE MARTIN,

NUN

Have been Awarded PRIZE MEDALS for their Celebrated

EAU DE COLOGNE

AT THE FOLLOWING EXHIBITIONS, VIZ:—

LONDON, 1851. RHENISH PROVINCES, 1852. NEW YORK, 1853.
PARIS, 1855. LONDON, 1862.
VIENNA, 1873. SYDNEY, 1879. MELBOURNE, 1880.

Facsimiles of Prize Medals Awarded at London Exhibitions, 1851 & 1862, appear on Label of each Bottle. Without such, None are Genuine.

BEWARE OF IMITATIONS!!

EAU DE COLOGNE of the **"NUN"** (so-called), manufactured by any firm other than the above, is spurious, and an infringement of registered proprietary rights.

PRICE LIST.

	Duty Paid, Net.	In Bond.		Duty Paid, Net.	In Bond.
No. 1.—Half Shorts	3/6	5/6	No. 4.—Long Green Flasks	16/-	11/-
No. 2.—Shorts	16/-	11/-	No. 5.—Wickered Bottles (Small)	26/6	19/3
No. 3.—Shorts (finely Wickered)	21/3	16/6	No. 6.—Wickered Bottles (Medium)	53/-	38/6

No. 7.—Wickered Bottles (Large)..... 106/- duty paid, net; 77/- in bond.

Small Cases assorted to order (of not less than £3 value in bond) delivered free freight, less 7½ per cent. discount.

All Sizes can be obtained through any Wholesale House, or direct from the Sole Agents for Great Britain and Ireland,

C. E. MASON & CO.,

2 BEECH STREET, LONDON, E.C.

SUPERFATTED MEDICINAL SOAPS

MANUFACTURED UNDER THE CONSTANT CONTROL OF

Dr. MED. J. EICHHOFF, Senior Physician to the Wards for Skin and Venereal Diseases of the Elberfeld Hospital,

BY

FERD. MULHENS, No. 4711 Glockengasse, Cologne-on-Rhine.

1250. Menthol-Eucalyptol Soap
1251. Menthol Soap
1252. Salol Soap
1253. Thymol Soap (for Children)
1254. Ichthyol-Tar Soap
1255. Salicylic-Ichthyol Soap
1256. Sulphur-Camphor-Peruvian Balsam Soap
1257. Salicylic Soap
1258. Salicylic-Sulphur Soap
1259. Salicylic-Sulphur-Tar Soap
1260. Creoline Soap
1261. Resorcine Soap
1262. Aristol Soap
1263. Iodoform Soap
1264. Benzoic Soap
1265. Pine-Needle Extract Soap
1266. Resorcin-Salicylic Soap
1267. Resorcin-Salicylic-Sulphur Soap
1268. Resorcin - Salicylic - Sulphur - Tar Soap
1269. Quinine Soap
1270. Hydroxylamine Soap
1271. Ergotine Soap
1272. Iodine Soap
1273. Salicylic-Creosote Soap
1274. Sublimate Soap, ½ %
1275. Sublimate Soap, 1 %
1276. Thiol Soap, 5 %
1277. Thiol Soap, 10 %

TO BE OBTAINED FROM ALL THE LEADING WHOLESALE HOUSES IN THE U.K.



WRITE FOR TERMS OF AGENCY.

We invite the attention of the trade to this high-class tooth powder which is now being well advertised and will be found to command a ready sale. The most eminent members of the musical and dramatic professions have testified to its worth. It is giving satisfaction to both the trade and the public wherever it has been introduced. We have special facilities for assisting our agents local sales, and we shall be pleased to supply full particulars upon hearing from you.

Address: DOROTHY DENTIFRICE COMPANY, 11 & 13 St. Bride Street, London, E.C.

WHITE AND SOUND TEETH.

JEWSBURY & BROWN'S



ORIENTAL TOOTH PASTE.

This old-established and increasingly favourite Dentifrice has been over Sixty Years before the Public. It is warranted to retain its properties and keep in good condition in any climate. The original and only genuine is manufactured solely by

JEWSBURY & BROWN, Chemists, MANCHESTER,

and is distinguishable by the Trade Mark, printed in red and green, a facsimile of which is annexed. Particular attention should be paid to this guarantee of genuineness, as numerous imitations are offered. Sold universally by Chemists and Perfumers, at **1s. 6d.** and **2s. 6d.**

The Trade and Shippers supplied by the leading houses in London and elsewhere. Bills and Show Cards forwarded on receipt of address cards and directions for enclosure.

R C TREATT

Dunster House Mincing Lane
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IMPORTER OF

Musk Civet Ambergris Attar-of-Rose

ESSENTIAL OILS



Wholesale and Export only

APPLICATION ON QUOTATIONS AND PRICE LIST

COCKING'S JAPAN OIL OF PEPPERMINT.

Our Extra Steam Refined Oil is trebly distilled and twice rectified by steam, by an entirely new process and in apparatus of our own invention, by which all those polymeric products of a tarry and resinous nature which are objected to by some consumers are extracted. It is of water-white colour, retaining its full aroma, pungency, and strength, and guaranteed absolutely pure and soluble in spirits of wine.

COCKING'S JAPAN MENTHOL CRYSTALS.

Our Extra Steam Refined quality is in firm, hard, dry, and snowy-white crystals, entirely free from oily contamination, and therefore of the highest melting-point. As the original and largest manufacturers in the world of the true Japan Menthol, we guarantee our brand to be absolutely pure. Beware of substitutes. For full particulars, therapeutic uses, &c., see special circulars, to be had on application.

Sole Agents—JOHN BATT & CO., 39 OLD BROAD ST., E.C.

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Drug and Chemical Merchant,

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PURITY GUARANTEED.

Oleum Absinthii, Amygdalæ Dulcis, ditto Essent., Anisi (H. & W.), Bergamotæ, Caryophylli, Cognac, Coriandri, Geranii (Vimard & Co.), Iridis (Vimard & Co.), Juniperi, Lavendulæ, Limonis, Menth. Pip. (H. G. Hotchkiss), Pini Pumilionis, Sylvestris, Rosmarini, &c., &c., &c.

OTTO OF ROSE (Pure Virgin).

SPECIALITIES:—

CARAMELINE (substitute for Burnt Sugar). 20 times stronger than Caramel.

SOLUBLE ESSENCE OF ORRIS (Maubert Fils & Vimard).

CONCENTRATED PERFUMES, POMADES, FLOWER-WATERS.

Carbolic Acid, Liquid, 25 per cent.
Carbolic Acid, „ 50 „
Carbolic Acid, Liquid, 95 per cent.
Carbolic, Crystal, 35° to 70°.

WORLD-WIDE POPULARITY. THE DELICIOUS PERFUME

CRAB-APPLE BLOSSOMS.



Crab-Apple Blossom Toilet Water, 24/- and 36/- doz.

Crab-Apple Blossom Poudre de Riz, 21/- doz.

Crab-Apple Blossom Sachets, 12/6 doz.

Crab-Apple Blossom Soap, 16/- doz.



Two articles of the Perfume have ever been produced which have been received with the enthusiasm which has greeted the Crab-Apple Blossom Perfume and the Crown Lavender Salts. They are literally the delight of two continents, and are as eagerly sought in New York and Paris as in London.



20/-, 36/- & 43/- doz. 16/- & 32/- doz.

AND THE CELEBRATED

CROWN LAVENDER SALTS.

ANNUAL SALE OVER 500,000 BOTTLES.



The New Japanese Series.

MATSUKITA DU JAPON,

A NEW AND DELICHTFUL PERFUME.

Matsukita Perfume	21/- and 36/- doz.
Matsukita Toilet Water	24/- and 36/- „
Matsukita Poudre de Riz	21/- „
Matsukita Toilet Soaps	16/- „
Matsukita Sachets	12/- „



The above Quotations are for delivery at Manufactory in London.

THE CROWN PERFUMERY CO., 177 NEW BOND STREET, LONDON.

New Illustrated Price List and Showcards on application. *Cable Address—"BRIGHTNESS LONDON."*

MÜLHENS' ORIGINAL No. 4711 BRAND

OF

EAU DE COLOGNE



The Gentlewoman writes as follows:—"Those of us who are connoisseurs in this matter of perfume know how greatly the various so-called Eaux de Cologne vary, and are well acquainted with the superiority of the '4711' make over all others. This possesses an unequalled degree of refreshing fragrance, is at the same time both stronger and more delicate, and is not only better, but more lasting than others."

Young Ladies' Journal:—"Its pure, fresh scent never palls as is the case with many perfumes."

The World says:—"Anyone desirous of getting a thoroughly genuine Cologne cannot do better than send for a bottle of the '4711' double extract. Once having used it, repetition is a foregone conclusion."

Lady's Pictorial says:—"Its quality is absolutely the best, while for purity and lasting effects it has no rival. . . . We can most cordially advise all our readers to make a point of obtaining the No. '4711' brand."

Truth finds it "really deliciously sweet."

OF ALL WHOLESALE FIRMS IN THE U.K.

Do not omit to mention the "No. 4711," and the Blue and Gold Printed Label, which commands a higher Retail Price than any other Brand whatever.

LONDON BRANCH:—62 NEW BOND ST., W.

Wholesale, Export, and Retail—R. J. REUTER, Manager.

MEDAL FOR PURITY, SANITARY INSTITUTE, 1889.

6 PRIZE MEDALS AWARDED FOR PURITY OF SOAPS.

COOK'S PURE TOILET SOAPS

These Soaps are perfectly pure, and will be found in use pleasant to the most delicate and sensitive skin, great care being used in the selection of scents to avoid anything likely to cause irritation.

NO INJURIOUS COLOURING MATTER USED.

SPECIALITIES:—"SAVON DE LUXE"

THE MOST LUXURIOUS SOAP MADE.

Thousands of large samples of this Soap have been distributed, and have met with universal approval. Being made from the purest materials obtainable, it is not only a luxury, but it is economical in use.

COOK'S SUPERFATTED SOAP. "RIVIERA" BRAND.

Specially prepared for Delicate and Sensitive Skins.

COOK'S "HYGIENIC" TOOTH SOAP AND "RIVIERA" SHAVING STICK.

COOK'S ANTISEPTIC SOAP

(THOMSON'S PATENT).

A most carefully conducted set of experiments by eminent members of the Medical Profession has established the fact that this Soap is of the highest value in the treatment of ECZEMA, RINGWORM, SCABIES, FAVUS, and other Diseases of the Skin.

Messrs. E. COOK & CO. have received from Medical Men numerous communications testifying to the success that has attended the use of this Soap, most of which cannot be published; but Messrs. E. C. & Co. have the permission of many of the writers to show the originals to members of the Medical Profession.

CAN BE OBTAINED THROUGH

MESSRS. S. MAW, SON & THOMPSON, OF LONDON,

OR DIRECT FROM THE MAKERS.

Price, in 3-Tablet Boxes, per doz., 12/, Selling Price, 1/6; in ¼-gross Boxes, 10/6 per box.

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EDWARD COOK & CO., LONDON,

MAKERS OF

COOK'S Celebrated GOLD MEDAL PRIMROSE, MOTTLED, and SOFT SOAPS; also of COOK'S LIGHTNING CLEANSER, and COOK'S HIGH-CLASS TOILET SOAPS.

SPECIALITY:—SAVON DE LUXE.

GOLD MEDAL, PARIS EXHIBITION, 1889.

See our Inset in this issue between pages 32 and 33.

PRICE LIST ON APPLICATION.

NAPOLEON PRICE & CO.

LIMITED

(SOLE SUCCESSORS TO PRICE & COSNELL).

Established 1770.

PRICE LIST ON APPLICATION.

Proprietors of THE ROYAL PERFUMERY COMPANY,

27 Old Bond Street, W.

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"Materials of the best quality only are evidently used in the Manufacture of all these products, a precaution of especial importance when articles for the Toilet are used."—*The Lancet* of July 23, 1892.

GENUINE ARTICLES. WIDE RANGE.

Toilet Soaps. Perfumes.
Powders. Dentifrices. Pomades.

SOME SPECIALTIES:

REGISTERED PERFUMES.—"SPINAROSA"—Gained Gold Medal, Paris Exhibition, 1878–9.
"GLORIOLA"—The Queen of Perfumes.
"EDELWEISS"—The BEAU IDEAL of a refined woman's perfume.

"EDELWEISS" PERFUME. "EDELWEISS" SOAP.
"EDELWEISS" TOOTH PASTE, ETC., ETC.

REAL OLD BROWN WINDSOR SOAP—Unique, Unequalled.

The Lancet says:—"Is desiccated and trebly milled, containing according to OUR OWN TESTS a minimum of moisture, and perfectly free from irritants."

VELVEEN—"A white opaque Soap of Especial Purity."—*The Lancet.*

CHERRY TOOTH PASTE—Napoleon Price's,

IN THE WELL-KNOWN BURNT-IN POTS.

CAUTION.

A. S. LLOYD'S EUXESIS,

FOR

SHAVING WITHOUT SOAP, WATER, OR BRUSH.

R. HOVENDEN & SONS having purchased under an administration suit the business of the late A. S. LLOYD, with the receipt, trade-mark, and goodwill of the celebrated Euxesis, the trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

The label is printed with Black Ink only on a yellow ground.

31, 32 & 33 Berners St., W., and 91, 93 & 95 City Road, E.C., LONDON

BORAX & CAMPHOR SOAP.

(DODD'S PATENT.)

DODD BROS. desire to draw the attention of the trade to their Borax and Camphor Soap, the demand for which is being rapidly created, and it finds a ready sale wherever introduced. It is specially adapted for washing the Hair, and is invaluable for the Skin, Bath, and Toilet. It is packed in handsome carton cases, and retails at 6d. One-dozen box makes an attractive show.

Artistic Showcards and Handbills on application to any Wholesale House, or to Dodd Bros., Stamford Hill, London, N.

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GENUINE EAU DE COLOGNE

Johann Maria Farina
Gegenüber dem Laurenz Platz

2-oz., 7/6, 4-oz., 14/; WICKER BOTTLES. ½-pints, 21/-, pints, 42/-; quarts, 84/- per doz.

The second largest sale amongst Chemists in the U.K.

Sole Agents—OSCAR MOENICH & CO., 8 COLEMAN STREET, LONDON, E.C.

50 YEARS SUCCESS

HOPGOOD'S NUTRITIVE & SEDATIVE HAIR CREAM.

The *only* preparation for the Hair recommended by leading Physicians for the removal of Scurf, allaying irritation, preventing greyness and baldness, and producing a LUXURIANT HEAD OF HAIR.

JOHN A. WALCOTT, M.D., M.R.C.S., says:—"I feel much pleasure in being able to recommend (with confidence) your NUTRITIVE CREAM in all cases of irritation of the scalp, accumulation of dandriff and loss of hair, in each of which I have freely used it with UNFAILING SUCCESS."

In Bottles to Retail at 1/6, 2/6, and 3/6. Revised Wholesale Prices, 12/6, 20/-, 30/- per doz. Supplied by all Wholesale Sundry Houses,

OR FROM THE DEPOT—

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(First introduced by the late JOSEPH OKELL.)

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling Perfume in the market.

Retail Prices, 1/-, 1/9, 3/6, 6/-, 7/6, 10/6 per Bottle.

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by

THOMAS WEST 1185 & 1187 CHESTER ROAD, MANCHESTER.

A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

CAUTION.

The labels on genuine EUXESIS bear signature of Inventor, A. S. LLOYD, in BLACK INK, and the signature of his Widow, AIMÉE LLOYD, in RED INK. Refuse all other.

Manufacturer: AIMÉE LLOYD

(WIDOW OF A. S. LLOYD, FORMERLY OF 27 GLASSHOUSE STREET),

3 SPUR STREET, LEICESTER SQUARE, LONDON.

N.B.–When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

H. A. ROBERTSHAW & CO.,
HALIFAX, ENGLAND.

Proprietors of BEAURINE PREPARATIONS, and Dentifrice Manufacturers to the Trade.

TELEGRAPHIC ADDRESS—
"BEAURINE HALIFAX ENGLAND."

Quotations given for large or small quantities of all kinds of Dentifrices—*i.e.*, Tooth Blocks, Powders, Liquids, and Pastes, in Collapsible Tubes. Write for our quotations before giving your order elsewhere. Dentifrices put up in high-class style. Quotations also given for Perfumes and all kinds of Preparations, with your own Name and Address, either from your own or our Recipes.

ALLCHIN'S SMELLING SALTS.

The increasing demand for these celebrated Smelling Salts has induced the Proprietor to bring them out in a more portable and elegant form than hitherto supplied. The New-shaped Bottles will be found well worth the attention of the Trade.

WHITE FLINT GLASS, Handsomely Cut, 4 Sizes, Retail 6d., 1/6, 2/-, 2/6
,, ,, ,, Watch Shape, for the Pocket, 3 Sizes, Retail 1/-, 1/6, 2/-

ALFRED ALLCHIN'S PHARMACEUTICAL PREPARATIONS.

SMELLING SALTS.—The MONOCARBONATE OF AMMONIA, manufactured by ALFRED ALLCHIN, is the Neutral Salt so much valued for the preparation of Smelling Salts. It retains its pungency as long as any Salt remains. 1-lb. bottles, 2*s.* 8*d.* each.

LIQ. AMMON. ODORIF., or VOLATILE ESS., for Allchin's Ammon. Monocarb. In Stoppered Bottles, 4-oz., 1*s.* 8*d.* 8-oz., 3*s.*; 16-oz., 6*s.* each.

PUNGENTS, with handsome Cut Stoppers, filled with Allchin's Smelling Salts, 8*s.* per doz.; retail 1*s.*

OL. ROSÆ CONCENT.—One ounce of this Concentrated Solution of Anchusine, mixed with two pounds of Oil will give it the usual colour; it is also admirably adapted for colouring Pomades, Lip Salve, Camphor Balls, &c. 4*s.* per lb.

OL. FLAV. CONC.—One ounce, added to two pounds of Pomade, will give the usual golden colour, which is permanent. 4*s.* per lb.

SOLE PROPRIETORS—
W. BUSH & CO. (late Allchin), Chemists, 94 Richmond Road, Barnsbury, LONDON.
TO BE HAD OF ALL THE WHOLESALE HOUSES.

INDEX TO ADVERTISEMENTS,

Pages 65 to 68.

GOLD MEDAL

JAMAICA EXHIBITION.

A PURE AND PERFECT ARTICLE FOR

Teeth, Gums, and Breath.

PURILINE

REGISTERED

TOOTH-POLISH

Will purify and beautify the Teeth with a pearly whiteness; polish the enamel; prevent tartar; destroy all living germs and keep the mouth in a delicious condition of comfort, health, purity, and fragrance. Non-gritty, and absolutely pure and harmless to use. Price One Shilling, in handsome Enamel Box.

The POPULAR DENTIFRICE, which Sells at Sight,

Handsomely put up in Show-cases, as here shown. Printed in Twelve Colours. An ornament to any window.

Price 7/6 per dozen, of all Wholesale Houses.



The COURT CIRCULAR says:—"'Puriline' emanates from the laboratory of 'Bunter's Nervine' fame. Bunter's previous preparations for the teeth have received such high encomiums from medical men that it is not surprising that this latest production should have received the recognition and approval of those best qualified to pronounce on its merits."

H. M. STANLEY, D.C.L., LL.D., the great African explorer, says:—"I use 'Puriline Tooth Polish and Wash'; am much pleased with both."

The Countess of ROSSLYN writes:—"Have been recommended to use your Dentifrice, called 'Puriline.' It is extremely nice; please send me six more."

Show-cards and Handbills supplied by

A. WILSON, 422 Clapham Road, LONDON, S.W.

Proprietor of "Bunter's Nervine," "Dentine," and "Puriline."

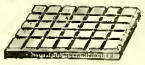
W. & J. JAMIESON

Manufacturers of Dental Materials,

10 BROAD ST., GOLDEN SQ., LONDON, W.

Telegraphic Address—"DENTAL LONDON."

LION TOOTH TABLETS



PORTABLE DENTIFRICE.

120 Tablets, 1/- per box.



Fragrant Bouquet Tooth Soap

6*d*., 1/-, and 2/- per box.

RUBILINE

AN EXQUISITE LIQUID DENTIFRICE.

1/6 and 3/- per bottle.

APONIA TOOTHACHE PLASTERS

1/1½ per box.

EVERY DENTAL REQUISITE.

THE LARGEST SALE IN THE WORLD.

WOODS' ARECA NUT TOOTH PASTE.

Special terms sent on application for £5 worth.

WOODS & SON, Pharmacists, PLYMOUTH, ENGLAND.

USED BY ROYALTY.



IVORINE

COMPLEXION CREAM

Removes Wrinkles, Superficial Eruptions, Irritation, Inflamed Eyelids; Heals Burns, Cuts, Bruises, Insect Bites, and is invaluable for Eczema.

Highly recommended by "LANCET" and Dr. STARTIN.

Miss ELLEN TERRY says: "Nothin can compare with it."

IVORINE HAIR BALSAM

Prevents Baldness and Greyness, removes Dandruff, stimulates vigorous Growth, and imparts a softness and glossiness unrivalled by other preparations.

PEARLINE Dentifrice preserves Teeth, renders them pearly white, and gives delightful fragrance to the breath.

CREAM and BALSAM, 1/6 each. PEARLINE, 1/- Proprietors—

BAILEY'S TOILET COMPANY, BEDFORD

Wholesale Prices:—

CREAM and BALSAM, 12/- each; PEARLINE, 8/- per dozen.

HANSON'S

PERFECTION DENTIFRICE,

MOUTH WASH, & GARGLE.

(REGISTERED.)

Pleasant, Antiseptic, Deodorant, Prophylactic.

Preserves the Teeth, Prevents Decay, Cures Inflammation and Ulceration of the Gums, and is invaluable for all Throat Affections. Being composed of the Purest Ingredients, it may be taken medicinally. Full directions on each bottle.

Prepared in Two Sizes: 3-oz. and 6-oz. Bottles.

RETAIL PRICE **1/6** AND **2/6.**

ALL CHEMISTS, DRUGGISTS, AND STORES WOULD DO WELL TO STOCK THIS DENTIFRICE. GOOD PROFITS.

Handsome Show-Card and Price List sent on application to

OSWALD HANSON

1 WARD'S END, HALIFAX, YORKS.

By Royal Letters Patent.

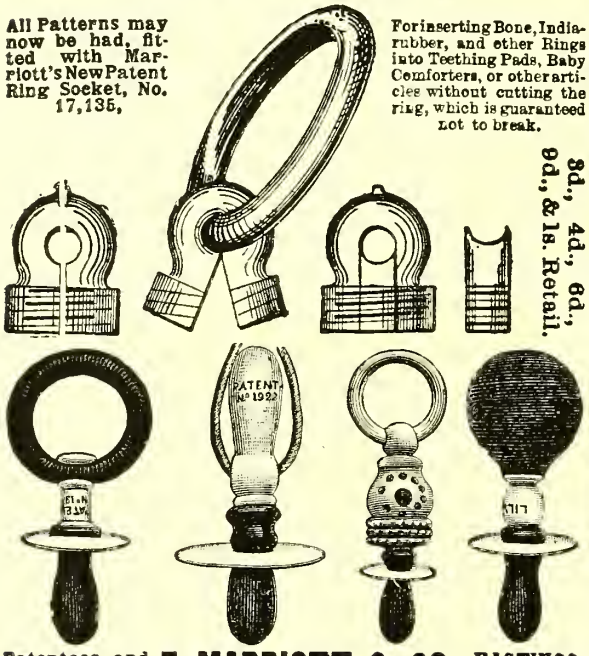
THE TEETHING PADS TO SELL.

THE "LILY" BABY COMFORTER.

The teats are seamless, and always retain their proper shape.
THE CHILD CANNOT POSSIBLY IMBIBE AIR.

All Patterns may now be had, fitted with Marriott's New Patent Ring Socket, No. 17,135,

For inserting Bone, India-rubber, and other Rings into Teething Pads, Baby Comforters, or other articles without cutting the ring, which is guaranteed not to break.



3d., 4d., 6d., 9d., & 1s. Retail.

Patentees and Manufacturers, E. MARRIOTT & CO., HASTINGS.

FOR OTHER PATTERNS SEE 1893 DIARY, PAGE 295.

H. P. TRUEFITT'S
SPECIALITIES FOR THE HAIR.

Floral Extract, 3/6, 5/-, 10/6, 21/-
Egg Julep, 2/-, 4/-
CONCENTRATED Egg Julep, 2/6, 5/-, 10.6.
Golden Fluid, 10/6, 21/-
EUXURON, 1/6.
&c.

EUCHRISMA.
Combines in one clear Fluid every valuable Comfrient both of a Hair Grease and Wash, 3/6, 5/-, 10/6, 21/-.

EAU RACINE.
For renewing the original colour of Grey Hair; Perfect to all other Restorers, being perfectly simple in its Components. Price 6/-.

Stimulating Lotion, 5/-, 10/6.
Astringent and Tonic Lotion, 5/-, 10/6.
Quinine and Arnica Hair Wash, 3/6, 5/-, 10.6, 21/-
Arnica Wash, 3/6, 5/-, 10/6.
&c.

An elegant Preparation for the Hair and Beard.
Price 2/6, 3/6, 5/-, 10/6, 21/-.

BRILLANTINE.

H. P. TRUEFITT'S TONIC TOOTH BRUSH
(BY ROYAL LETTERS PATENT.)
PRICE ONE SHILLING.
20 & 21 Burlington Arcade; 13 & 14 Old Bond St., London.

JOSEPH WATSON & SONS,
MANUFACTURERS OF
GLYCERINE
DOUBLE DISTILLED CHEMICALLY PURE, 1260 Sp.G.,
ALSO FOR
NITRO-GLYCERINE AND OTHER MANUFACTURING PURPOSES.

PACKED IN 10 AND 5 CWT. IRON DRUMS, TO BE RETURNED, AND IN 56 LBS. TINS FREE.

WHITEHALL SOAP WORKS, LEEDS.

G. VOGT & CO.

WHOLESALE AND EXPORT DRUGGISTS AND MANUFACTURING PERFUMERS
(French Extracts in Bulk a Speciality),
20 SHERWOOD STREET, PICCADILLY CIRCUS, W.

Telegrams—"Alsace London." Price List on application.

THE ONLY ESSENTIAL OIL MERCHANTS IN THE WEST END.

"THE LEADING HOUSE"

FOR

"Private Brands" of milled and superfatted Soaps, toilet as well as medicinal.

As we make it our business,

PRIVATE

if required, to wrap the Tablets tastefully and put them in boxes bearing customers' lithographed,

CHEMIST AND DRUGGIST:

H. Bronnley & Co. have struck out a line which is useful to the trade, and ought, consequently, to be profitable to themselves. They are manufacturing private brands of toilet soap. The samples they showed us were variously entitled, and bore the names of well known and highly-reputable pharmaceutical firms. Their soaps are superfatted, and the samples we were shown were, in respect of emollience, fragrance, and moulding, of a very high quality.

BRANDS

gold, or silver blocked labels, houses abroad have special

OF

facility to order from us. We do not advertise to the public,

MILLED

and can supply our friends with well got-up lines

SOAPS.

and best-class goods at Wholesale prices.

BRITISH AND COLONIAL DRUGGIST:

. . . Messrs. H. Bronnley & Co., who make it their specialty to manufacture private brands of de-hydrated and superfatted toilet and tooth soaps. We understand that this firm is patronised by the best buyers, and we believe that profitable business may be done with their attractive and genuine goods.

WE PUT UP

DENTIFRICES FOR THE TRADE,

Tooth Soaps, Saponaceous Tooth Powder, Paste in Collapsible Tubes, &c., &c.

35 DANBURY ST., ISLINGTON, LONDON, N.

H. BRONNLEY & CO.,

LARGEST TOOTH SOAP COMPRESSERS IN THE WORLD.

TO THE WEED KILLER TRADE.

For Destroying Weeds, Moss, &c., on Garden Walks, Carriage Drives, Roads, Meadows, &c.

We desire to point out the special advantages which the sale of our "Acme" Weed Killer affords the Trade.

1. The "Acme" Weed Killer is used in the gardens and on the estates of the Gentry everywhere, and by Corporations and Burial Boards in Parks, Cemeteries, &c.
2. Our Retail Prices are such as will induce a ready sale, and we make no charge for 1 and 2 gallon tins.
3. We pay carriage on twelve gallons in 1 and 2 gallon tins, and on 10 gallons in drums and upwards, to any Station or Port in Great Britain.
4. Drums and casks are charged at cost price. Full prices allowed when returned.

Trade and Export Terms on application. The most Liberal Terms to the Trade.

RETAIL PRICES.—In 1 and 2 gallon tins, 2/- per gallon (tins included); in 5-gallon drums, 1/6 per gallon; 10, 15, and 20 gallons, 1/4 per gallon; in 40-gallon casks, 1/3 per gallon.

TESTIMONIALS received from Mr. HEAD, Crystal Palace; Mr. IRWIN LYNCH, Cambridge Botanic Gardens; and others.

THE "ACME" WEED KILLER, FOR CHEAPNESS AND EFFICIENCY, HAS WON FOR ITSELF A NAME FAR ABOVE ALL OTHERS.

SOLE PROPRIETORS AND MANUFACTURERS—

THE ACME CHEMICAL CO., LIM., Tunbridge, Kent; & Carlton St., Bolton, Lancashire.



LUXURIANT HAIR

PRODUCED BY THE WORLD-RENOWNED

WILLIAM LASSON'S

HAIR ELIXIR

Prevents Hair Falling Off, Stimulates its Growth, Removes Dandriff, and Promotes a Healthy Action of the Scalp. Perfectly Harmless and Devoid of any Injurious Ingredients. Free from Dye or Oil. Simple in Use and Most Refreshing.

SECOND TO NONE FOR

RESTORING AND BEAUTIFYING THE HAIR

To Retail at 6/- per Bottle. Trade Terms on application.

A Supply of Coloured Show Cards and Counter Bills sent free on receipt of Trade Card.

Druggists' Sundries: Soap Boxes, Puff Boxes, &c., &c., a Speciality.

SUPPLIED THROUGH ALL WHOLESALE HOUSES.

M. LINDNER (late the Damkoehler M'f'g. Co), **170 FLEET STREET, LONDON, E.C.**

Sole Importer for the U.K.

Telegrams: "LINDNER LONDON."

G. B. Kent and Sons,

Catalogues.

General, May 1891.
Toilet, April 1893.
Tooth, July 1887.
Painters, Jan., 1893.
Sponges, Monthly.

Telephone Nos.:
OFFICES, 3550.
FACTORIES, 1166

G.B. KENT & SONS. BRUSH FACTORIES LONDON
A. D. 1777.

Registered Telegraphic Address:
"TRICHO, LONDON."

Departments.

Toilet Brushes.
Tooth Brushes
Painters' Brushes
Household Brushes.
Stable Brushes.
Sponges.

11, · Great · Marlborough · Street,

LONDON. W.

July 19th, 1893.

BRUSHES FOR CHEMISTS.

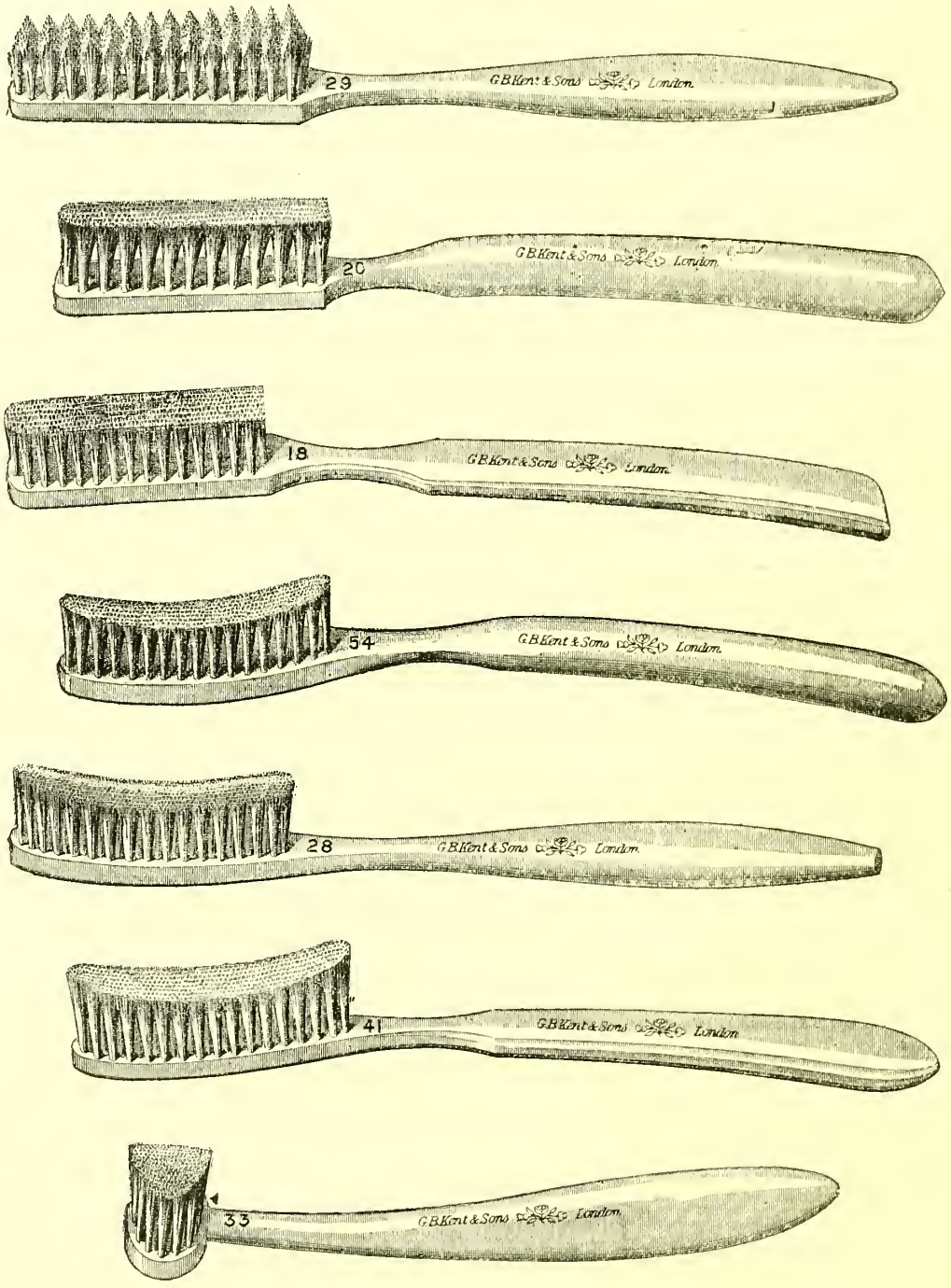
In submitting the accompanying sketches of Tooth Brushes to the Trade we would point out that we are bona fide manufacturers of Brushes, and we ask that buyers should consult their own interests in these days of competition by direct purchases from the makers of the goods they handle.

Our full Illustrated Catalogue, containing Illustrations of all classes of Toilet Brushes, will be sent post free on application.

G. B. Kent & Sons.

G. B. KENT & SONS

Illustrations of Tooth Brushes.

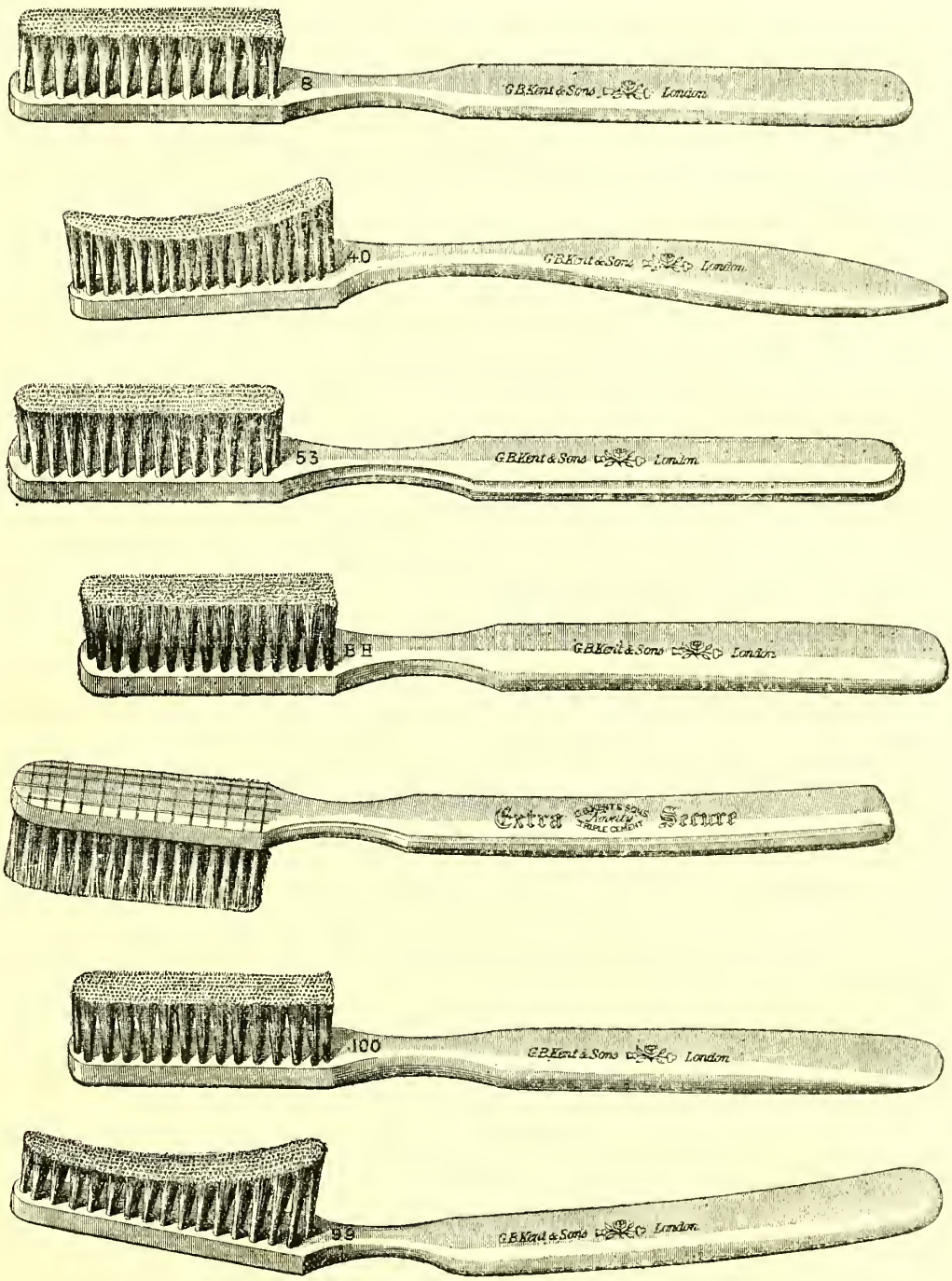


The above represent only a few of the selected drawings contained in G. B. Kent & Sons' Specially Illustrated Tooth Brush Catalogue, which contains 72 designs, and which will be forwarded by post on application.

TOOTH BRUSHES.

G. B. KENT & SONS

Illustrations of Tooth Brushes.



The above represent only a few of the special drawings contained in G. B. Kent & Sons' Specially Illustrated Tooth Brush Catalogue, which contains 72 designs, and which will be forwarded by post on application.

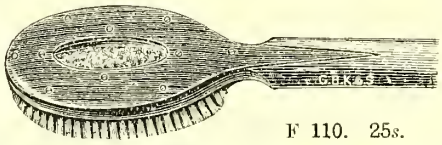
TOOTH BRUSHES.

G. B. KENT & SONS,

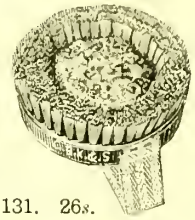
A NOVELTY IN FLESH BRUSHES.

PRYKE'S PATENT No. 20804.

G. B. KENT & SONS SOLE LICENSEES.



F 110. 25*s*.



F 131. 26*s*.

These Brushes will be found very pleasant in use. The Sponge inserted in the centre of the Brush cleanses the pores of the skin, at the same time as the bristle portion of the Brush creates the necessary friction.

F 110	Oval Handled, Beech	Fibre Outside	25*s*.	per dozen.
F 131	Round, Webbed, ,,	,, and Bristle	26*s*.	,,
F 132	,, Handled, ,,	,, ,,	28*s*.	,,
F 103	Oval, Webbed, ,,	Bristle, Stiff	38*s*.	,,
F 111	,, Handled, ,,	,, ,,	40*s*.	,,

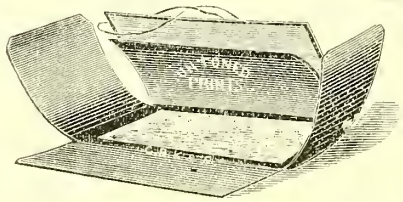
FOXWOOD OLIVE ROSEWOOD EBONY SATINWOOD TULIP

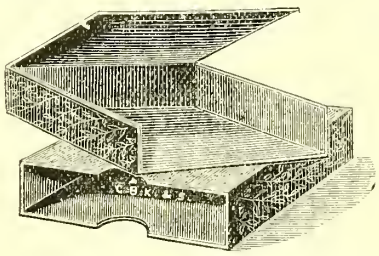
THE "FOREST" NAIL BRUSH.

Boxed in assorted woods as above. No. 184, 4-row, 10/-; No. 185, 5-row, 12/-; No. 186, 6-row, 15/-.

PHOTOGRAPHIC REQUISITES.

MANUFACTURED BY G. B. KENT & SONS.





UNTONED PRINT CASES.

Lined ruby fabric for storing prints until ready for toning and fixing.

No. 1 size, 5 × 4. No. 2. 7 × 5. No. 3, 9 × 7. No. 4, 10½ × 8½ inch.

NEGATIVE STORING BOXES.

For holding negatives, either glass or film, each in an envelope.

¼-plate, ½-plate, 1/1 plate.

FILM NEGATIVE STORAGE ALBUM.

(ENTERED AT STATIONERS' HALL.)

Containing 100 envelopes numbered and printed for storing negatives either on flat celluloid film, or Eastman rollable film.

FULL LIST OF PRICES ON APPLICATION

ALL KINDS OF BRUSHES USED BY PHOTOGRAPHERS.

LONDON.

S. V. METH.

LOWEST PRICES.

BEST QUALITY.

PROMPT DELIVERY.

JONES & COMPANY, Copperfield Road, **LONDON, E.**

LARGEST MAKERS IN THE KINGDOM.

NET CASH WITH ORDER.

S 0/56 19/4 **V** 0/60 19/10 **R**

PERFECTLY PURE.

FIT FOR ANY PURPOSE.

PURE ORANGE WINE.

ST. ANDREW'S DISTILLERY 49 CLERKENWELL RD., E.C. GEORGE PHILLIPS & C° LONDON

S 0/61 **V** 0/64 **M**

AT LOWEST PRICES.

Special Terms to Large Buyers.

PURE GINGER WINE.

FOREIGN WINE AND SPIRIT MERCHANTS.

SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY.

Per doz. 42/- Per doz. THE CREAM OF SCOTCH BLENDS. Per doz. 42/- Per doz.

BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS,

ALL HALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for **S. V. R.** *Methylated Spirit and Finish on application.*

FINEST ORANGE WINE FOR QUININE

JAMES BURROUGH

S. 65 o.p. **V.** 60 o.p. **R.**

CALE ST., CHELSEA, S.W.

and Methylated Spirit

AT LOWEST PRICES.

WRITE FOR QUOTATIONS.

Worth Reading.

Eau de Cologne.

Having been appointed Sole Agents for the excellent Brand of **Johann Maria Farina, Gegenuber dem Freisenplatz,** for the United Kingdom and Colonies, which has a great reputation on the Continent, is admitted to be *second to none*, we ask you to order a sample lot. It bears a good profit, and is, therefore, worth introducing.

2 oz.	... ...	8/- dozen.
4 „	... ...	14/- „
4 „ Wickered, Gold Label	...	16/- „
½ pint „	... ...	24/- „
1 „ „	... ...	47/- „
2 „ „	... ...	93/- „

We also supply Samples as follows:—

Flat Bottles, 3 dozen on Card very attractive... ... ... 8/- gross.

Sexagon Bottles, 2 dozen in Box 16/- „

We shall be glad to forward a very elegantly coloured Show Card of this Eau de Cologne on application, and also to give special prices for gross quantities.

Carbolic Powder.

Fifteen per cent. acid carbolic. Tins bear no name, only "Acme Brand."

1*d.* Packets, half-gross in box ...	6/6 gross.
4*d.* Tins, with attractive wrappers	2/- dozen.
6*d.* „ decorated Black and Gold	3/6 „
1*s.* „ „ „ „	6/6 „

(Extra large size.)

Chemical Food.

Permanent, does not deposit.

Elegantly Engraved Label, 6 dozen with Buyer's own name.

4 oz. Bottles, by weight..	2/6,	each bottle in Cartoon,	2/10	dozen	
8 „ „ „ ..	4/6	„	„	5/-	„
16 „ „ „ ..	8/-	„	„	8/9	„

Tabellæ of Pure Compressed Drugs.

In Pocket Boxes, attractively labelled, no name, only "Acme Brand."

Antipyrin, 5 gr.	6/- dozen.
Cascara Sagrada, 4 gr.	3/- „
Pot. Bicarb., 5 gr.	1/6 „
Pot. Chlor., 5 gr.	1/6 „
Quinine Bisulph., 5 gr.	4/- „
Soda Bicarb., 5 gr.	1/6 „
„ Ment., 5 gr.	1/6 „

Supplied also in Pocket Flask and Bulk, and in many more kinds.

Saline Grape Juice.

Carefully prepared, and will stand any climate.

Patent Stoppered Cheltenhams, 8 oz, plain labels, each Bottle in handsome cartoon ...	8/9 dozen.
In Self-opening ¼-lb. Tins	3/- „
Bulk, 7-lb. Tins free...	1/- per lb.

(6 dozen with Buyer's own name on cartoon.)

Cream of Glycerine and Cucumber.

FOR CHAPS, SORE HANDS, &c.

4-oz. Bottles, in elegant cartoon ... ... 6/- dozen.

(6 dozen with Buyer's own name on cartoon.)

HOCKIN,

Wholesale Druggists,
13 to 16 New Inn Yard,
And 27 Cannon St.,

CATALOGUE OF SUNDRIES, AND ADDENDA, AND

Perfumes.

TRIPLE EXTRAITS.



In handsome Glass Show Case, containing ½ dozen ¼-oz., ⅓ dozen 1-oz., and ⅙ dozen 2-oz., special triangular bottle, engraved label, 6/9 case.
This is an attractive form of showing Perfumes; keeps them clean and prevents waste.

Tooth Powder.

In Bottles as Block, Carbolic, Rose, and Quinine, with spoon for applying the Powder, 8/- dozen.



The "Acme" Loofah Bath Mat.

USEFUL AND LUXURIOUS.

These Mats are made from Fine Loofahs, lined with a strong open canvas, so that they dry quickly, and are easily kept clean, and are very portable.
In two sizes ... ... 18/- and 21/- dozen.

Bath Gloves.

Loofah, lined and bound ... ... 3/3 dozen pairs.
Flanel and Fancy Turco ... ... 5/6 „ „

Teething Pads.

Elegant Glass Show Case, containing 4 dozen Pads, to sell at 2*d.* to 6*d.* each.



10/- per Case.

This will be found a great improvement on the usual cards, as the Pads keep in much better condition, and do not look untidy as Cards do when a few have been taken off.

Cod Liver Oil.

FINEST NON-FREEZING NORWEGIAN.

Elegantly Engraved Label, 6 dozen with Buyer's own name.

4 oz. bottles, Imperial,	2/6 dozen	Each Bottle in Cartoon	2/9 dozen.	
8 „ „	4,6 „		5/- „	
16 „ „	8/- „		8/6 „	
32 „ „	13/- „		14/- „	

Seidlitz Powder.

Prepared according to the B.P. One gross boxes with your own name on, also each powder in envelope, 3 dozen in glass-top box. Don't waste time packing these, but write us for prices. We can show you an advantage.

Brillantine.

In 1 oz. Triangular bottles, to retail 6*d.* ... 3/9 dozen.
In 2 „ „ „ „ 1/- ... 7/- „

Tooth Soap.

The Acme. In round Celluloid Box, stamped in Gold. A most attractive article of best quality, 8/- dozen.

WILSON & CO.

and Druggists' Sundriesmen,
186a Tottenham Court Road, LONDON, W.,
MANCHESTER.

SPECIALITIES FORWARDED ON RECEIPT OF BUSINESS CARD.

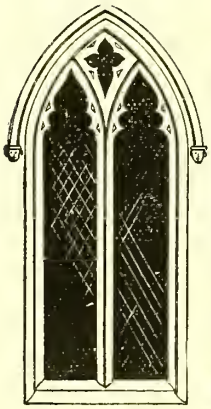
LOFTHOUSE & SALTMER,

MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL,

Manufacturers of Granular Effervescent Preparations. We shall be glad to give specially favourable quotations, and to send samples of our superior Nos. 1, 2, and 3 qualities of CITRATE OF MAGNESIA.

Importers of Cod Liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all Essential Oils; Valentia Saffron; Vanillas: Fruit Essences; Carmine, Aniline Dyes; Bees' Wax, &c., &c.

MANUFACTURERS of Very Superior Flexible Gelatine Capsules of Balsam Copaiba, Cascara Sagrada, Castor Oil, Cod-liver Oil, Santal Oil, &c. Samples and Lowest Quotations per 1,000, or in Boxes for Retail, will be sent on application from either the Wholesale or Retail Trade.



157,810

DR. BOW'S LINIMENT.

Of late a spurious article has been offered for sale, put up in imitation of the genuine one even to copying the Pamphlet, Wrapper, and Labels. To protect the public from, and facilitate proceedings against, such frauds, the Proprietor has registered the Trade Mark here shown, a reduced copy of which will be found on the outside label on every bottle put up after this date. As a further security, the name **"DR. BOW'S LINIMENT"** (also a trade mark) appears in the Government Stamp.

BARCLAY & SONS, LIMITED, LONDON
RAIMES, CLARK & CO., EDINBURGH & YORK

For the Proprietor,
December 1st, 1891.

CHEMICAL DISINFECTANT.

A 10 and 15% CARBOLIC Antiseptic and Deodorising Powder.
In bags and casks free.

AGENTS WANTED
to supply Corporations and large users.
6d. and 1/- Decorated
4/- and 9/- per doz. Boxes.

Special terms for 5 gross and upwards, with agent's name and address thereon.

CHESHIRE BIRD LIME.

In 1d., 2d., and 3d. tins. Also in 1, 2, 3, and 7 lb. tins and casks, for large consumers and the trade.

The new and attractively labelled tin boxes are very convenient and handy for use and retailing. Save time and trouble.

"COAGULINE" TRADE MARK.

Transparent Cement for Broken Articles.

CUE CEMENT.

CUE-TIP FIXERS

(Brass or Wood).

TIPS, WAFERS, CHALKS.

LAVA.

A fusible imperishable Cement for Stone and Iron Work Bedding, &c.

SAPO LINI,

OR

LINSEED SOAP

(A Saponified Linseed Jelly).

In Brown Windsor or "Rosetto" Tablets.

Prices, Circulars with Name and Address, Specimens, Show Cards, Glass Tablets &c., &c., on application.

KAY BROTHERS LIMITED, Laboratory and Works, ST. PETERSGATE MILLS, **STOCKPORT.** Founded A.D. 1786. Incorporated 1887.

MORRIS & CALLARD,

PONTAMMAN CHEMICAL WORKS,

AMMANFORD, R.S.O., CARMARTHENSHIRE,

MANUFACTURERS OF

ACETIC ACID, P.B., ACETIC ACID FORT., SP. GR. 1-040

ACETATE OF SODA, COPPERAS,

PURE WOOD NAPHTHA, SULPHURIC ACID & CHARCOAL

Telegraphic Address: "CALLARD, AMMANFORD." Prices and Samples on application. Established A.D. 1840.

Trade Notice.] [Trade Notice.

ATKINSON & BARKER'S
ROYAL INFANTS' PRESERVATIVE.

Established by 100 years' experience as a safe and effective Medicine.

Sold universally by Chemists and Patent Medicine Dealers.

WHOLESALE AND EXPORT ORDERS SUPPLIED FROM THE MANUFACTORY—

11 RUSSELL STREET, DOWNING STREET, MANCHESTER

SHOW CARDS AND BILLS ON APPLICATION.

CAUTION! SPECIAL NOTICE TO THE TRADE.
LION OINTMENT AND PILLS.

DEACON v. BURGESS.

In the High Court of Justice, Chancery Division, on Saturday, December 17th, Mr. Justice Kekewich, in delivering judgment, said "that it will be sufficient, I think, and I am sure quite safe now to say that the plaintiff (Mr. H. J. Deacon), who certainly has not proved his knowledge of the genuineness, but who has clearly indicated his ignorance, and who is attempting to sell as genuine medicine that of which he is really ignorant." N.B.—A full report of the Judgment appeared in THE CHEMIST AND DRUGGIST, December 24 last.

CHEMISTS ARE PARTICULARLY REQUESTED TO ORDER

E. BURGESS, JUNR.'S, LION OINTMENT AND PILLS,

And to see that the Label bears Address,

59 GRAY'S INN ROAD, W.C.

As these are the ONLY GENUINE Goods, and this fact will be EXTENSIVELY ADVERTISED throughout the Kingdom.

The Trade is respectfully requested to refer to the issues of "THE CHEMIST AND DRUGGIST" of December 10 and 17, and to read the Statutory Declaration made by E. Burgess, Junr., before the Lord Mayor of London. E. B., Junr., is the only person living with the knowledge of method of manufacture of these Remedies, and all statements to the contrary are untrue.

DENOUAL'S MEDICINAL CAPSULES
ARE THE BEST AND CHEAPEST.

Attention is called to the following articles:—

ON THESE **MEDICINAL CAPSULES** CHEMISTS ARE ALLOWED LARGE PROFIT.

SANTAL OIL CAPSULES, PERUVIAN MIXTURE CAPSULES, COPAIBA BALSAM CAPSULES, CUBEB OIL AND COPAIBA CAPSULES, MALE FERN CAPSULES.

ALL KINDS OF CAPSULES.

DENOUAL'S INJECTION.

ALL DRUGS WARRANTED TO BE GENUINE

JULES DENOUAL,

Carlton House, 4 New Cross Road, London, S.E.

1D. PILLS!! SUGAR-COATED!! 1D. PILLS!!



Medicine made pleasant for all.

The Cheapest and Best Family Medicine The most Saleable Article in the Market Composed of the purest Drugs. Will keep good in all Climates any length of time

The following varieties are put up in Glass Tubes, on Cards of 3 doz., or in gross boxes, at one penny per tube:—

Antibilious	Hamilton
Asafœtida	Liver
Blaud	Podophyllin
Castor Oil	Quinine
Colocynth	Rhubarb
Dandelion	Tonic
Female	Vegetable, &c.

Other varieties can be had if required. Terms—7s. per Gross, cash; 6 Gross assorted, in handsome mahogany glass case for 42s. Sent free by parcel post on receipt of P. O. Order or Postage Stamps. Agents and Purchasers of large quantities get a liberal discount. *Send for Sample.*

Aromatic Cachous, Chlorate of Potash Pellets and other varieties put up as above at same price.

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Telegraphic Address—"Liliputian Glasgow."



HARROLINE PILLS.
The Great Harrogate Tonic.

An unfailing Cure for **Poverty of Blood, Anæmia, Chlorosis,** and every form of Debility arising therefrom.

1s. 1½d. and 2s. 9d.

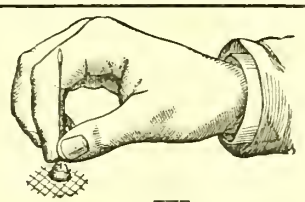
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HARROLINE PILL CO.,

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FULL PARTICULARS & TERMS ON APPLICATION.

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THE

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SOLE AGENTS FOR

DR. WARLOMONT'S CALF VACCINE

Tubes, 2s. each; Half-tubes, 1s. each. Pomade in vials, 5s.

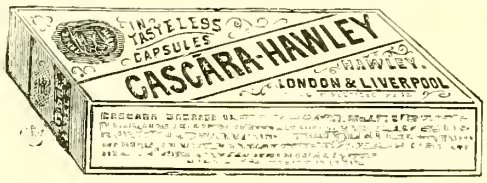
HUMAN VACCINE, from healthy children only, microscopically examined and source quoted. Tubes two-thirds full, 1s. 3d. each; Tubes one-third full, 1s. each; Tubes two-thirds full (same as those mentioned above, but without source), in quantities for export, £5 per 100 Tubes. Pin-points, uncharged, 1s. per dozen, Vaccine Ejectors, 1s. 3d. each, including postage. P.O.O.'s (including postage) and crossed London and Westminster Bank) with orders, payable to

EDWARD DRAKE, *Secretary.*

Office Hours 10 to 4. Saturdays, 10 to 2.

HAWLEY'S COUNTER ADJUNCTS.

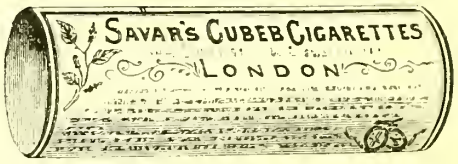
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A reliable laxative is often wanted (especially for Ladies and Children), tasteless, and that can be swallowed with ease. Nothing can be better than the B.P. fl. Extract of Cascara Sagrada, rendered tasteless by an envelope of gelatine. Each Capsule is equal to ½ drachm of fl. Extract. In Pregnancy and Habitual Constipation invaluable.

Box 20, 1/1½; 100, 4/6 per box; 10/- & 40/- per doz.

SAVARS CUBEB CIGARETTES.



Is there any real palliative for Asthma and Chronic Cough? Cubebs smoked so as to get the effect of the resins down the Throat is always worth a trial. Here we have the effect aided by Stramonium and softened by Cannabis Indica. To be smoked through the nose for Hay Fever.

Boxes, 1/- & 2/6; 9/- & 24/- per doz.

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Capsules.

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Particular attention paid to the manufacture of goods suitable for warm climates.

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THE NEW PERMANENT

ENGRAVED WINDOW TABLETS

AWARD OF MERIT International Sanitary Exhibition, 1881.

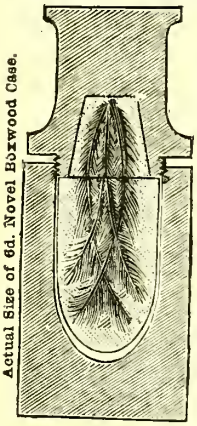
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Send particulars of size, subject matter, and colour, when price for one Tablet and upwards will be sent.

For Proprietary Articles, 100 8×6 Ruby Tablets, £3 15s. 0d.

J. R. CORSAN, The London Sand-blast Works, 58a GRAY'S INN ROAD, W.C.

TO PREVENT FRAUD, DEMAND BUSINESS CARD FROM TRAVELLERS.



Actual Size of 6d. Novel Boxwood Case.

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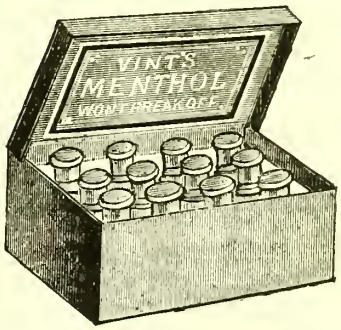
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Is firmly secured to the holder by the insertion of Feather Tips, which Penetrate the Cone, are Soft, Tough, and Spreading, so that it

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The Chemist and Druggist says: "MR. VINT, CHEMIST, HASTINGS, is the originator of an ingenious idea for securing Menthol Cones so that they may be used to the last without fear of breakage."

3/6 & 6/6 doz., of Barclay, Maw, Sanger, Sutton, Edwards, Newbery, May Roberts, Chemists' Association, and all Sundry Dealers; or 1 dozen of either size sent free on receipt of P.O. 3/6 or 6/6.



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THE LARGEST SALE. THE EASIEST TO SELL.

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We are receiving continual complaints of other Inks being substituted. When ordering please state clearly

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WHOLESALE PRICES NET.

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FACSIMILE OF THE GENUINE LABEL.



YOUR RUBBER STAMP MOUNTED WITH NAME OR MONOGRAM FREE

KINDLY ORDER AND DISPLAY IN WINDOW AND COUNTER, AND YOU WILL FIND IT DOUBLE YOUR SALE.

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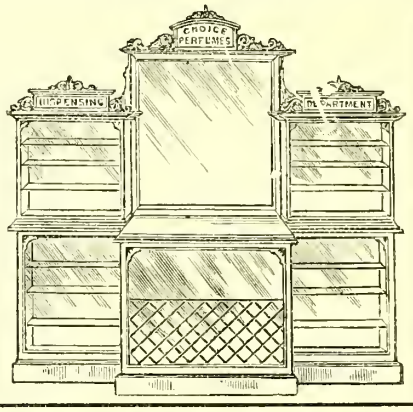
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"THE CHEMIST" DISPENSING COUNTER.

6 feet long by 2 feet wide £24
If the Dispensing Screen only .. £12

This handsome Dispensing Counter is manufactured in Spanish mahogany, and of the best workmanship, so that it will stand any climate. The counter has a solid mahogany top and plate-glass case front. The centre part fitted to take sponge. A mahogany screen on top, consisting of two plate-glass cases, with shelves inside, and large plate-glass mirror in the centre, and three glass tablets with gold writing in ornamental mahogany carved work. The back of screen fitted with small shelves and a glass poison-cupboard. The inside of counter fitted with strong counter-drawers, label and cork drawer, open shelves, &c.



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Manufacturers of High-class Shop Fittings,
GUN STREET, BRUSHFIELD STREET,
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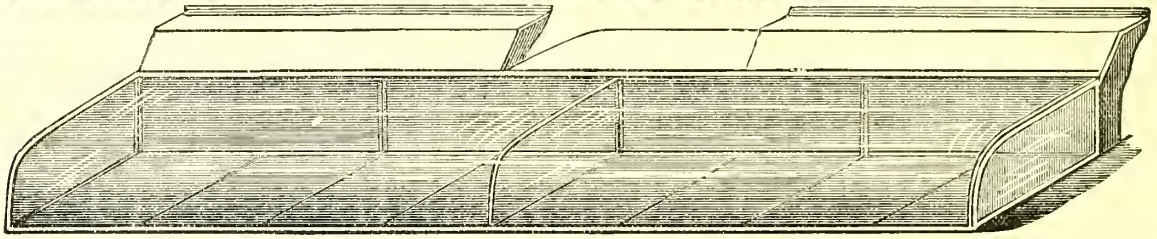
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ONLY ADDRESS—NO CONNECTION WITH ANY OTHER HOUSE.

ELKANAH NATALI, SHOP FITTER & GLASS CASE MAKER.

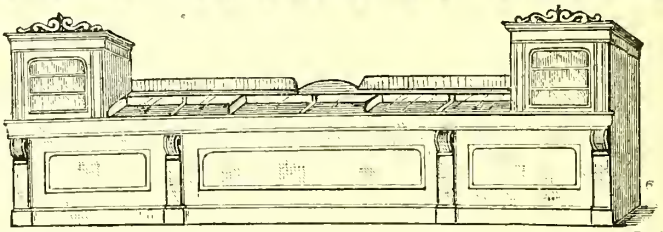


Mahogany and Plate-glass Counter Case, sloping and flat shelf at back, 12 inches high to top of shelf, fitted inside with velvet-lined trays and silvered glass back. 5 feet long, £5; 6 feet long, £5 10s.; 8 feet long, £7.

242 OLD STREET (12 doors from City Road). Works: HENSON STREET.
ESTABLISHED 20 YEARS.

W. S. YATES
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CHEMISTS' AND GENERAL SHOP FITTER,
SHOP FRONT BUILDER AND GLASS SHOWCASE MAKER,
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PLANS & ESTIMATES supplied for Work in any part of the Kingdom.



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SECOND-HAND FIXTURES OCCASIONALLY ON HAND. DENTISTS' CASES, &c., &c.

SHOPS TO LET FOR NEW BUSINESSES.

All kinds of Glass Work in Name Plates, Shelves, Outside Lettered Slips, &c.

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Has always in Stock a large assortment of Second-hand and New Drawers, Counters, Dispensing Screens, Glass Wall and Counter Cases, and every requisite for Fitting-up a Shop within 24 hours at prices less than any other house.
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NATALI & CO.

40 GRAY'S INN ROAD, HOLBORN, LONDON, W.C.

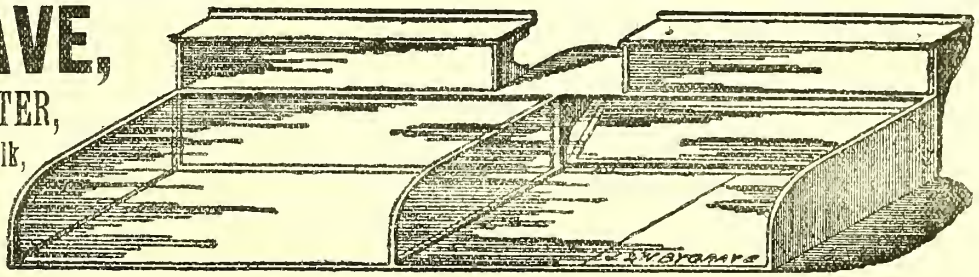
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OF ALL DESCRIPTIONS, NEW AND SECOND-HAND

Chemists commencing, opening Branches, or making alterations, can be fitted throughout immediately, and save 25 per cent. by purchasing from our extensive stock.

TRANSFER AGENCY NOW OPEN. Several good Businesses for Sale and Wanted.
Stock taken, Valuations made, and Sales effected on most reasonable terms.
NO CHARGE for REGISTERING BUSINESSES for SALE, and NO CHARGE TO PURCHASERS.

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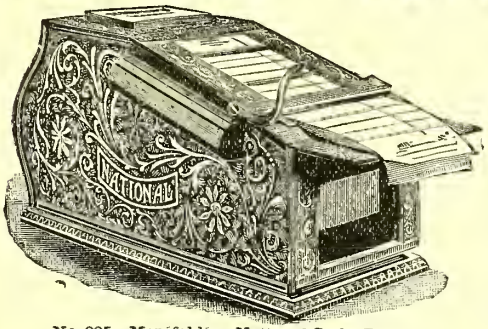


Bent-top plate-glass Counter Showcase, in French polished mahogany, or ebonized, with two upright mirror plate-glass fronted shelves, and table in centre for serving over, and mahogany falls at back lined with mirror plate glass inside fitted with crimson velvet trays—if 5 ft. long, 18 in. wide, 8 in. high (total height 13 in.), **£5 10s.**; 5 per cent. off for cash.

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THE NEW "AUTOGRAPHIC" REGISTERS.

PRICE, £6 10s.



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This Register is equipped with three rolls of paper. Any matter desired (usually a bill for goods) is printed on the top sheet of paper, which is ruled in appropriate lengths.

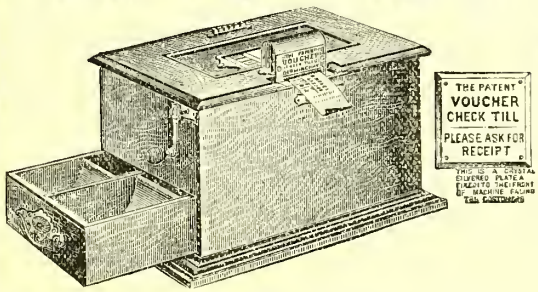
Carbon sheets are in position between the three rolls of paper; and when the items are written on the top sheet, a duplicate of the entire writing is made on the second sheet, and a triplicate copy, which is simply a summary, is made on the third sheet. All is done at one writing. The summary, showing the total amount of the sale, the date the name and address of the purchaser, and the salesman's initial or number, is automatically re-rolled inside of the register.

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CHEMISTS, DRUGGISTS,
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Possess exceptional facilities for the introduction of NEW SPECIALITIES, Patent Medicines, Druggists' Sundries, Perfumery, &c.

TWO PROFITABLE INVESTMENTS!

STOKES' PATENT CHECK TILL SYSTEM

Stokes' System is the Cheapest, Safest, Handiest, and most Effective Check, and occupies less counter room than any other.

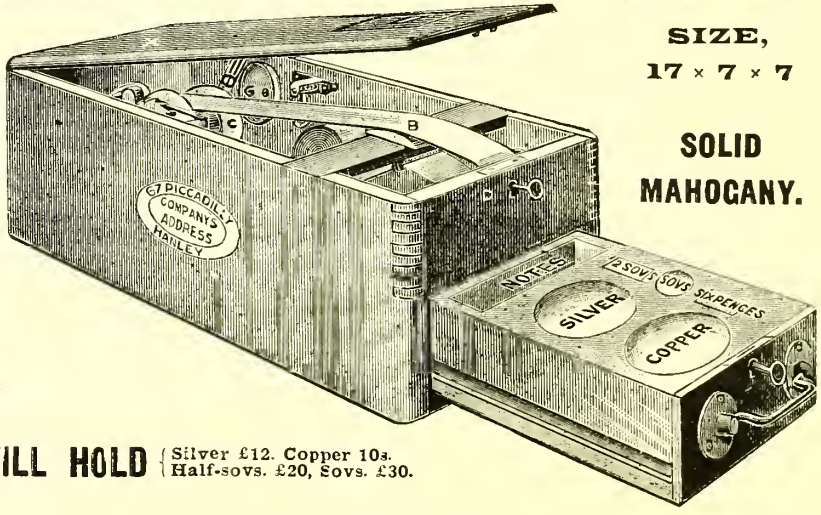
IT WILL PAY YOU TO PURCHASE. If each Till only displays deficiencies of 2*d*. per week, the return is 15 per cent. on outlay, thus placing it in the front rank of

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Price only

£2 10

Check Action Attachment, 5s. extra.



SIZE, 17 × 7 × 7

SOLID MAHOGANY.

Terms and full particulars on application.

BOWLS WILL HOLD { Silver £12. Copper 10s. Half-sovs. £20, Sovs. £30.

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Write for Explanatory Circular, sent on receipt of Two Postage Stamps.

Price complete, only 10/6. Carriage Paid.

Will accommodate Five to Seven Years' Trading, according to size of business.

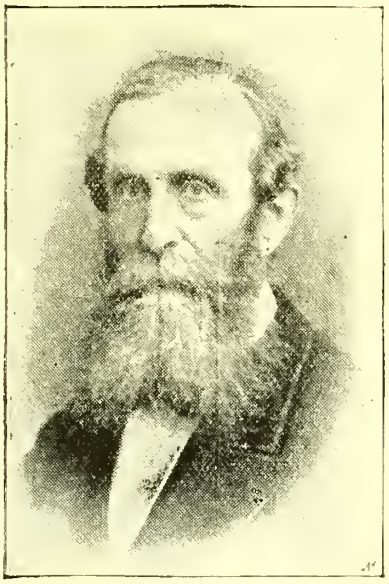
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Having had such a successful sale for **Stokes' Check Tills,** we have been enabled to largely increase our contracts with Paper Mills, and thus buy at bottom prices. PLEASE NOTE our price per dozen equals the price charged by other makers for only half-a-dozen Rolls. **Paper Measures:** Width, 2 in.; length, 22 yards. Price: 1 doz. Rolls and under 1 gross, **3**/- per doz., subject to 9*d*. per doz. discount. 1 gross Rolls, **36**/-, subject to 12/- discount.

Postage and Carriage Paid. Discount allowed for Cash with Order only.

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THE ONLY SELF-CLOSING TILL.

No complicated Back-Stop required!

Having had fourteen years' experience selling Check Tills, and having seen thousands of persons who have them in use, I have avoided existing defects, and adopted such improvements for speed and security as should recommend my Self-Closing Till to all.

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PATENT

SELF-CLOSING CHECK TILL

IS THE BEST, AND QUICKEST IN USE.

Price £3 Nett Cash,
Or £3 10s. Three Months.

Made in Solid Mahogany.
Size - - - 18 × 10 × 7 inches.

SPECIALLY SUITED FOR CHEMISTS & DRUGGISTS.

A Leading Firm of Chemists write:—
"Your Tills insure accurate balancing of cash at the close of each day."



In Use in over 250 Towns in the United Kingdom.

NUMEROUS TESTIMONIALS.

SCORES OF REPEAT ORDERS.

Write for Particulars, or Send for One on Trial.

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FOURTEEN DAYS' TRIAL BEFORE PURCHASE.

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PRINCE ALBERT'S CACHOU AROMATISÉ.

Exhibited
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Agents wanted
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Are supplied in Brass Boxes, at 4/- per dozen.

JACKSON'S CHINESE DIAMOND CEMENT.
FOR CHINA, GLASS, & WHAT NOT.

6d. and 1/- size; neatly packed in Dozen Boxes, at 3/6 and 7/- per dozen.

JACKSON'S FRENCH LIQUID GLUE.
ADHESIVE, STABLE, TENACIOUS.
GOOD WHEREVER GLUE IS NEEDFUL.

6d. and 1/- size; packed in Half-dozen Boxes, Brushes included, 3/6 and 7/- per dozen.

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CLEANS SOILED DRAPERY & DRESSES FROM GREASE, PAINT, &C.

CAREFULLY PACKED IN STRONG BOTTLES AND WELL CORKED.

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A DEPILATORY
FOR REMOVING HAIR FROM THE ARMS, NECK, & FACE.

In Packets, price 8/- per dozen.

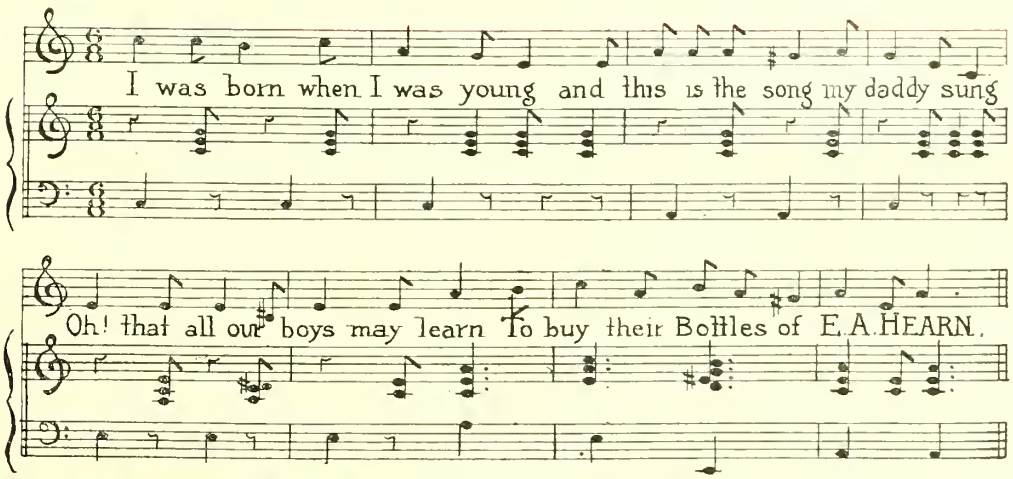
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THOMAS JACKSON,
STRANGEWAYS, MANCHESTER.

CHEER UP YE DRUGGISTS,
dont wear worried looks



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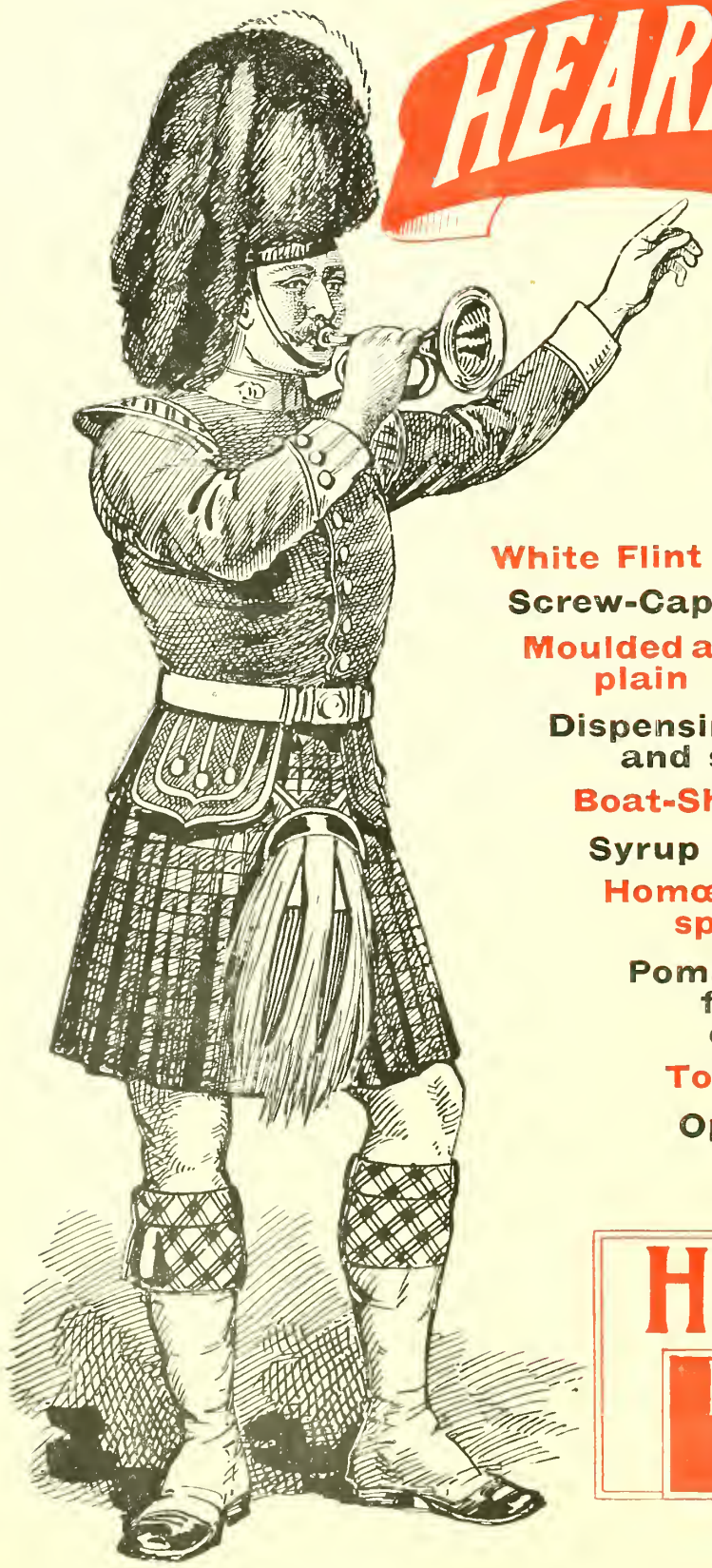


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ECLIPSE GLASS WORKS
LOWER CLAPTON.

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HEARN'S BOTTLES ARE THEY



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White Flint Vials.

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Dispensing Bottles in every tint and shape.

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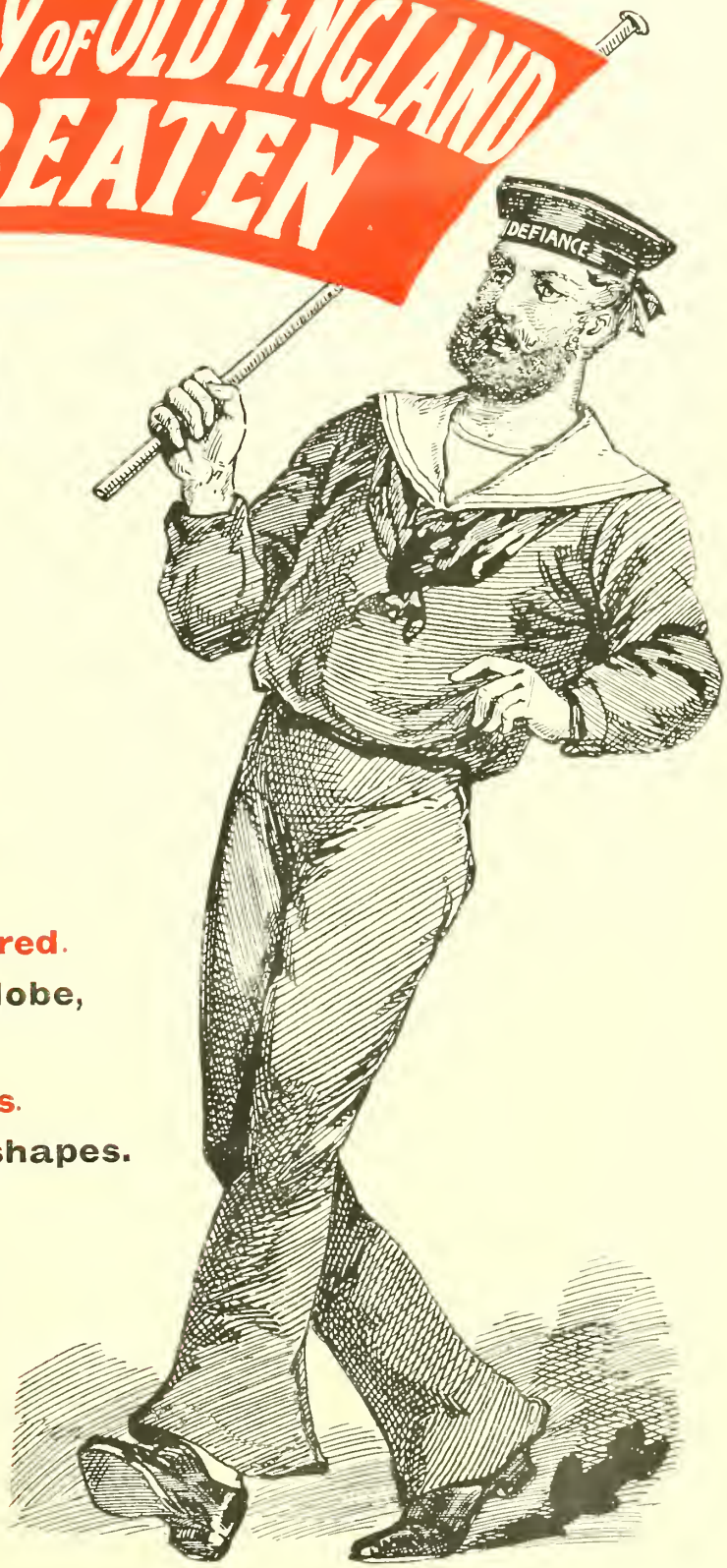
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IKE THE ARMY & NAVY OF OLD ENGLAND CANNOT BE BEATEN



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Screw-Capped Honey Bottles.

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Net Cash.
Per 6d. Size 2/- Doz.
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Net Cash.

Command the largest sale, will be found a safe and profitable investment, and should be stocked by every Chemist.

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LEATH & ROSS,

Wholesale & Export Homœopathic Chemists,

9, VERE ST., OXFORD ST., W. (WHOLESALE DEPARTMENT)
AND 5, ST. PAUL'S CHURCHYARD, E.C. } LONDON.

LEATH & ROSS'S

HANDSOME AND ATTRACTIVE

COUNTER SHOW-CASES.

SPECIAL TRADE NOTICE.

OUR

£5

Handsome & Attractive

CASE

(OPEN BACK OR FRONT).

Fitted complete with Tinctures and Pilules (to customers' own selection if required) to the Net value of £5, thus yielding a handsome profit without trouble or inconvenience.

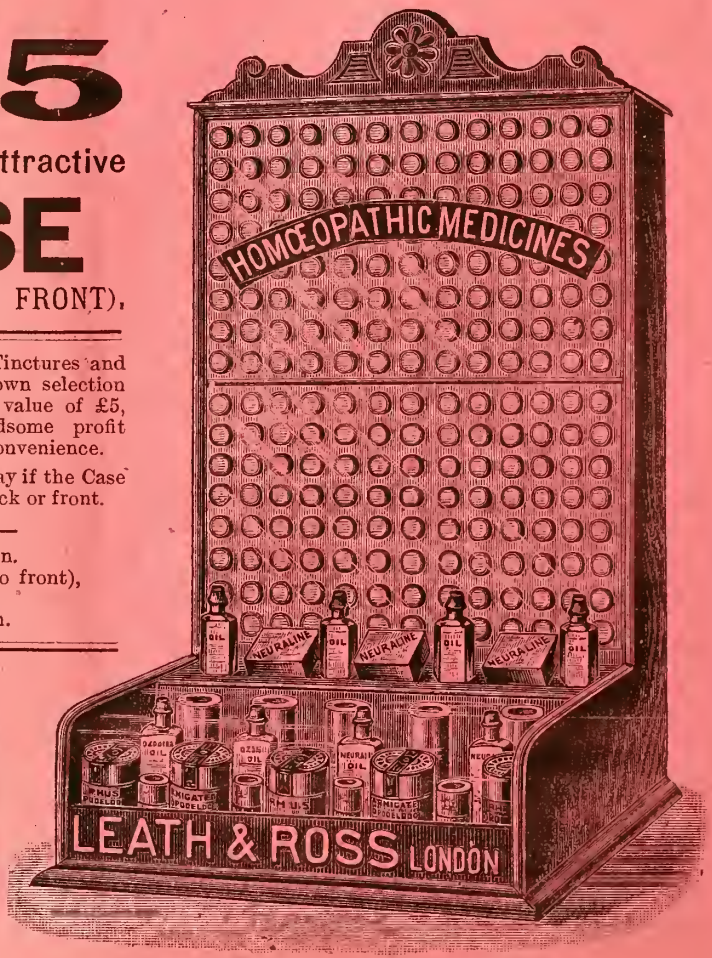
When ordering, kindly say if the Case is required to open back or front.

DIMENSIONS—
Length, 19¾ in.
Width (from back to front), 11¾ in.
Height, 32½ in.

No Charge

WHATEVER FOR

THE CASE.



OUR

TINCTURES, PILULES,

AND

CAMPHOR

Are in great demand everywhere, and can be had in any strength from the (/) (mother), 1x : 1, and upwards.

1/- Size

3/6 per doz. Cash.

9d. size, **2/9** ,,

6d. size, **2/-** ,,

A Smaller Case can also be had of the same pattern.

DIMENSIONS—
Length, 15½ in.
Width (from back to front), 11¾ in.
Height, 28 in.

Price £3 3s.

Other Agents' Cases, upright or flat, at £3 3s., £4 4s., £6 6s., £10 10s., and £21. All the Cases can be had in Mahogany, Walnut, or other Fancy Wood, to match Shop Fittings, and fitted with 6d. stock, 6d. and 1s. stock, 9d. and 1s. stock, or all 1s. stock, as preferred.

THE ABOVE VERY HANDSOME AND IMPROVED BENT-GLASS

CHEMISTS' COUNTER SHOW-CASE

Stands unrivalled for style, convenience, and beauty; occupies but a small space on the counter; is made to **open back or front,** to suit the convenience of the purchaser and the position it is intended to occupy. It is a splendid advertisement, attracting the notice of all customers, and proves a great source of profit to all who possess it. Our Homœopathic Medicines are known all over the world, and are in great demand everywhere. More than 2,500 Chemists in the United Kingdom alone stock them, besides having agencies in nearly all the British Colonies, in India, Africa, New Zealand, China, and other parts of the world.

A Similar Case, with Desk at back, Price £5 12s. 6d.

DIMENSIONS—Length, 19¾ inches; width (from back to front), 22 inches; height, 32½ inches.

(See preceding and two following Pages.)

LEATH & ROSS'S

HANDSOME AND ATTRACTIVE

COUNTER SHOW-CASES.

Handsome **SHOW-CASES** in various designs, or to order, in Mahogany, Walnut, or other Fancy Wood to match Shop Fittings.

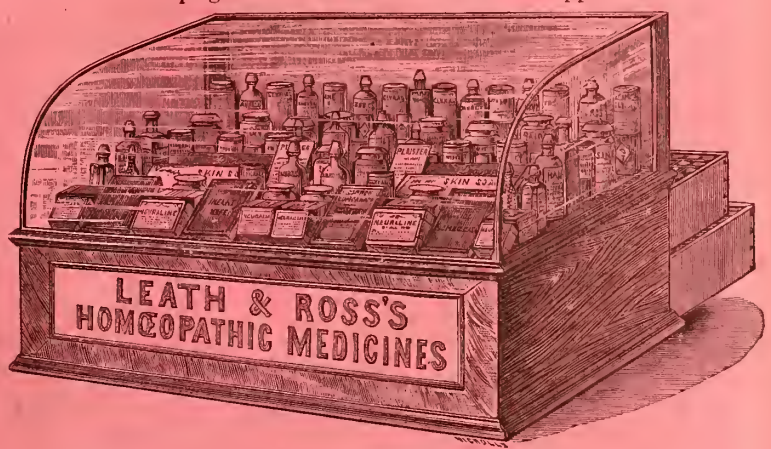
Upright or Flat **SHOW-CASES** from **£3 3s.** to **£21.**

NO CHARGE whatever for the **CASE.**

WALL CASES and **DESK CASES** to order.

Our £21 'COLONIAL' OR 'STORE' CASE

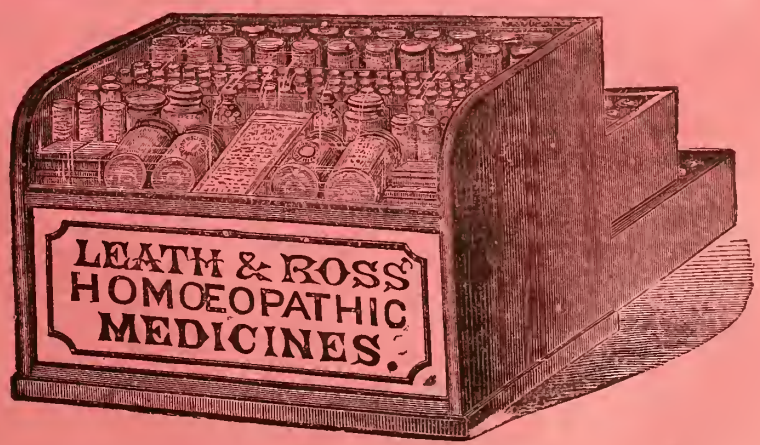
As Diagram below, or with bevelled-edge Mirror, and Carved Back, or Upright Back as **£5 CASE** opposite.



DIMENSIONS—Length, 37 inches; breadth, 23 inches; height, 16¾ inches.

Our £10 10s. AGENTS' CASE

As Diagram below, or with Mirror and Carved Back, or Upright Back, similar to the **£5 CASE** opposite.



DIMENSIONS—Length, 22 inches; breadth, 15 inches; height, 13½ inches

CASES made to fit in recess, or any Special Position on receipt of Measurements. All the CASES can be had fitted with **6d., 9d., or 1/-** Stock, or to Customer's own Selection, and in any strength.

BOOKS on the treatment of Common Complaints, Counter Bills, & Show Cards, FREE.

(See preceding two Pages, and following Page.)

LEATH & ROSS'S

WELL-KNOWN BRAND OF

HOMŒOPATHIC MEDICINES.

Capsuled and Put up ready for Sale in neat Cardboard Cases, with the dose of each Medicine on the Case.

KNOWN ALL OVER THE WORLD.

IN GREAT DEMAND EVERYWHERE.

To prevent disappointment, kindly specify that LEATH & ROSS'S Homœopathic Medicines are required, when ordering through Shippers or Wholesale Agents.

No Chemist or Medicine Vendor should be without them.

TINCTURES (Internal or External.) PILULES.
1/- Size
Per **3/6** Doz.
Net Cash.
CAMPHOR PILULES. CAMPHOR (Rubini's or Solution.)

Upwards of **2,500 Chemists** Stock our Medicines and find ready sale for them.

Can be had in any strength from the ♁ (mother), 1x: 1, and upwards.

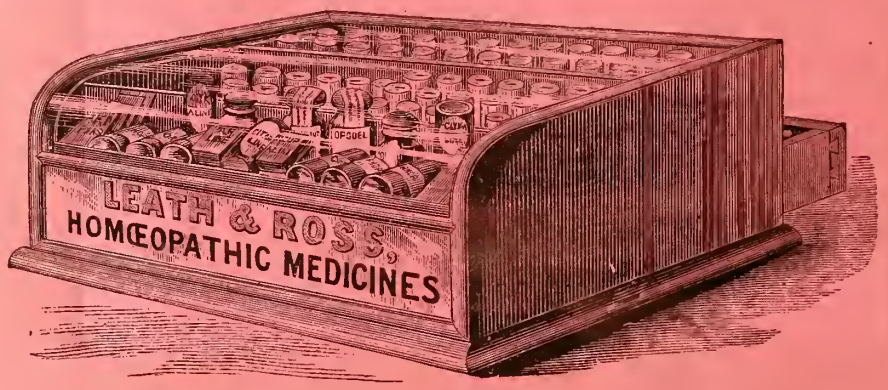
6d. size, 2/- per doz. cash.
9d. ,, 2/9 ,, ,,

Orders for Dozens or Half-dozens of each Medicine are put up in Cardboard Slide Boxes, and fully labelled on the outside; the stock is thus kept clean, readily seen, and occupies a very small space.

OUR £4 4s. AGENTS' CASE.

As Diagram below, or with Mirror and Carved back, or upright back similar to the £5 Case on Page 2.

Several Hundreds of our Cases have been sent out, as they tend greatly to increase the Sale.



Description—A handsome Bent-Glass Case with two drawers, the contents of top drawer visible, the Pilules and Tinctures arranged in alphabetical order.

Dimensions—Length, 21 in.; Breadth, 12 in.; Height, 9 in.

Show-Card, Transparencies for Window, Counter Bills, and Books (for gratuitous distribution on the Treatment of Common Complaints, sent with each Case.

A SIMILAR CASE TO THE ABOVE CAN BE HAD, PRICE £6 6s

Dimensions—Length, 20 in.; Breadth, 16 in.; Height, 9½ in.

LEATH & ROSS,

Wholesale and Export Homœopathic Chemists,

9, VERE ST., OXFORD ST., W. (WHOLESALE DEPARTMENT) } **LONDON.**

AND 5, ST. PAUL'S CHURCHYARD, E.C.

(See preceding three Pages.)



GOOD VALUE.

OVER

TELEGRAPHIC ADDRESS:
"FISH, LONDON."

TELEPHONE No. 1365.



WAREHOUSES:
No. 7, NORTH QUAY,
WEST INDIA DOCK, E.

OFFICES AND SHOWROOMS:
5, SAVAGE GARDENS,
TOWER HILL, LONDON, E.C.

Dear Sir,

We beg to inform our Friends and the Trade generally that we have, during the last year, added a large number of

NEW MOULDS,

to our already immense Stock of such, and that **WE ARE OPEN TO DESIGN** and **EXECUTE ORDERS** for

Bottles in New Shapes and Elegant Finish,

SUITABLE FOR ANY SPECIALITY.

It is hardly necessary to emphasize how **A NEAT APPEARANCE** affects **THE SALE**, and often **ALONE INTRODUCES A GOOD ARTICLE.**

We therefore pay special attention to **STYLE** and **FINISH**, while the **QUALITY** and **BEAUTIFUL TINTS**, and the **EXCELLENCY** of our Extra **WHITE** Flint Glass is recognised by all our friends.

The following are our Departments:—

No. 1.—CHEMISTS', DRUGGISTS', AND MANUFACTURING CHEMISTS' BOTTLES.
No. 2.—BEER, WINE & SPIRIT BOTTLES.
No. 3.—MINERAL WATER BOTTLES.
No. 4.—PERFUME BOTTLES.
No. 5.—PATENT MEDICINE & SPECIALITY MANUFACTURERS' BOTTLES.
No. 6.—CONFECTIONERS' AND JAM MAKERS' JARS AND BOTTLES

SPECIAL FACILITIES FOR EXPORT.

Colonial and Country Buyers are respectfully invited to inspect our Showroom when in London.

SAMPLES, PRICES, ILLUSTRATED CATALOGUES AND FULL PARTICULARS ON APPLICATION.

Yours faithfully,

JOHNSEN & JÖRGENSEN.

(See preceding three Pages.)

Important to Chemists!

ALBION FOOD MILLS,
SYCAMORE STREET,
LONDON, E.C.

DEAR SIR,

We beg to draw your attention to Analysis of Professor Attfield respecting our **Malted Cooked Food,** for **INFANTS** and **INVALIDS.**

(See other side.)

This Food being Carefully Cooked retains in an active state a powerfully Digestive Principle which renders it easy of Solution in the Stomach, and of subsequent Assimilation.

The Price at which it is produced, has already brought it into great demand.

This Food is packed in One Pound plain tins, ready for Labels to be affixed; or in Bulk per cwt.

SAMPLE AND PARTICULARS SENT FREE ON APPLICATION.

Agents Wanted in all Towns where not already Represented.

Geo. King & Co., ALBION FOOD MILLS, SYCAMORE ST., LONDON, E.C.

OVER

Report on the "Malted Cooked Food," manufactured by George King & Co. By Professor Attfield, Author of "Chemistry; General Medical & Pharmaceutical," 13th. Edition, 1889.

Messrs George King and Co.

Gentlemen, — You ask me for a professional Report on your "Malted Cooked Food", solely to be used as a Certificate of Composition for the eyes of Chemists and Druggists only. This I willingly give you on the distinct understanding that neither my name nor any part of the Report is to be used either by yourselves or your customers to promote direct sale of the Food to the public.

The sample of this Food received from you yielded 2·38 per cent of nitrogen; equivalent to 15 per cent of albuminoids, which is a fair proportion of flesh-formers. It afforded 0·82 per cent of Phosphoric anhydride, equivalent to 1·8 per cent of phosphates, a full proportion of bone-making material. The starchy or warmth-giving part of the food was properly cooked and the whole was properly malted. That is to say, on adding boiling water to the food neither an abnormally thin fluid nor a normally thick paste resulted but a prepared food of appropriate consistency for the use of children old enough to partake of farinaceous diet.

Yours faithfully, John Attfield.

London, Jan. 7. 1890.

DR. J. C. AYER & CO.,

Practical and Analytical Chemists,

LOWELL, MASS., U. S. A.

Established 1841.



MANUFACTURERS OF

Ayer's Standard Family MEDICINES.

AYER'S SARSAPARILLA

A Compound Concentrated Extract,

TONIC AND ALTERATIVE.

CURES

Scrofula, Catarrh, Dyspepsia, Debility, Rheumatism, Salt-Rheum, Boils, Pimples, and all forms of Blood Disease.

Has cured others, will cure you.

Extracted from Honduras sarsaparilla, the variety richest in medicinal qualities. The accompanying cut shows the bales of sarsaparilla root as imported expressly for the J. C. Ayer Co., each bale being covered at the ends by raw hide and held together with lacings of the same material.



Ayer's Cherry Pectoral

FOR COLDS AND COUGHS

And all Pulmonary Complaints.



A STANDARD REMEDY

For over Fifty Years, in the U. S. of America, approved by the Medical Profession.

DR. J. C. AYER & CO., Lowell, Mass., U. S. A.

Prompt to act, sure to cure.

Ayer's Cathartic Pills

A STRICTLY VEGETABLE PURGATIVE.

Sugar Coated

Quickly Dissolved

Easy to Take



For Old and Young

For all Climates

Mild in Operation

The Best Family Physic

FOR THE CURE OF

CONSTIPATION, DYSPEPSIA

WATER BRASH, DIZZINESS,

LOSS OF APPETITE, JAUNDICE,

BILIOUS COMPLAINTS, NAUSEA,



and all disorders of the

STOMACH, LIVER, AND BOWELS.

DR. J. C. AYER & CO., LOWELL, MASS., U. S. A.

Ayer's Hair Vigor

FOR DRESSING, RESTORING, AND BEAUTIFYIN(

THE HAIR.



An Elegant and Highly Popular

TOILET ARTICLE.

Perfectly Harmless

MAKES THE

Hair Soft, Silky, Luxuriant, and Pliable

TO THE BRUSH AND COMB.

For Ladies and Gentlemen

DR. J. C. AYER & CO.'S

Standard Family Medicines.

Ayer's Cherry Pectoral, for the rapid cure of diseases of the Throat and Lungs.

Ayer's Sarsaparilla, for Purifying the Blood, and for the prompt cure of Scrofula and Skin Diseases.

Ayer's Ague Cure, never fails to cure Chills and Fever, and all Malarial Disorders.

Ayer's Hair Vigor, for restoring gray or faded hair to its Original Vitality and Color.

Ayer's Cathartic Pills, the most valuable home remedy for all Purgative Purposes.

Removes Dandruff,

Prevents Baldness,

Cures Itching Humors,

Restores Original Color.



* * * * * * *

DR. J. C. AYER & CO.,

Lowell, Mass., U. S. A.

The Reason Why

YOU SHOULD STOCK

MARZA WINE.

BECAUSE

IT IS WELL ADVERTISED.
IT IS THE BEST TONIC WINE.
IT IS THE MOST PALATABLE.
IT IS ELEGANTLY GOT UP.
IT IS READILY SALEABLE.
IT IS A PROFITABLE ARTICLE.
IT IS THOROUGHLY SCIENTIFIC.

BECAUSE

All Purchasers become Shareholders.

SEE OFFER ON NEXT PAGE.

Marza Wine

TO MEMBERS OF THE PHARMACEUTICAL PROFESSION.

WITHOUT DOUBT THE MOST EQUITABLE AND LIBERAL OFFER EVER MADE.



The Founders of the MARZA MANUFACTURING COMPANY, LIMITED, will present to the FIRST PURCHASERS OF MARZA WINE, AN EQUIVALENT INTEREST IN SHARES OF £2 EACH (fully paid up and free from all liability) in the

MARZA MANUFACTURING COMPANY, LIMITED.

FOR INSTANCE, a Pharmacist purchasing £10 worth of Wine at the wholesale price will be presented with 5 Shares of £2 each fully paid. First purchasers therefore make a trade profit and acquire a PERMANENT PROPRIETARY INTEREST IN THE COMPANY. This is a really new method of TRADE CO-OPERATION and the MOST PERFECT PROFIT SHARING SYSTEM EVER INVENTED.

MARZA WINE to retail at 3/9.

WHAT IT IS! WHAT IT CONTAINS!

MARZA WINE is a sound Port Wine to which is added—
IRON, in a physiologically studied assimilable form,
PHOSPHORUS, the recognized Brain recuperative,
COCA, celebrated for its sustaining and exhilarating properties.
PEPSINE, to assist and accentuate the Digestive function.

The Therapeutic value of the Marza Wine may be thus stated. As a Brain Food and Digestive, Tone-giving Stimulant, it is being largely recommended by the Medical Profession for Anæmia, Chlorosis, &c., and for Convalescents after Influenza, Pleurisy, Pneumonia, Fevers, &c.



MARZA MEAT AND MALT WINE,

TO RETAIL AT **3/9.**

A thoroughly scientific preparation, superior in every respect to similar wines on the Market. The Wine is free from tannin, no sugar is added and THE SICKLY MAWKISH TASTE noticeable in other Malt Wines IS ENTIRELY ABSENT, the nourishing properties of the various constituents being most carefully preserved.

DESCRIPTIVE PAMPHLETS OF THE MARZA WINES MAILED ON APPLICATION.

Most highly satisfactory scientific testimony has been received from

Sir CHAS. A. CAMERON, M.D., D.P.H., &c. | Dr. HASSALL. | Dr. MAYBURY.
Dr. STEVENSON MACADAM, Ph.D., &c. | E. GODWIN CLAYTON, Esq., F.I.C., F.C.S. | Dr. DUTTON, &c.

The sale of these preparations necessitates the taking out of a Wine License. In certain cases the Marza Company are willing to pay the cost of acquiring same. THE MARZA WINES are NOT QUACK NOSTRUMS but scientific preparations. They are not recommended by the Proprietors for the cure of any Ailment or Disease, they preferring to leave their introduction in the hands of the Medical Profession and Pharmacists. The word Marza is a fancy word registered as a Trade Mark to protect the proprietary rights which every equitable-minded man will freely grant is but just; the word Marza, therefore, has no reference to the Chemical constituents of the Wines or their object medicinally.

Marza Wine

TO THE MEMBERS OF THE PHARMACEUTICAL PROFESSION.

Central Offices and Depot, 19 & 21, Wilson Street,
Finsbury, LONDON, E.C.,
July, 1893.

Gentlemen,

May we ask you to assist us in our endeavour to successfully extend this Business upon TRUE CO-OPERATIVE PRINCIPLES. In these days of severe competition Retailers are frequently mere puppets in the hands of WEALTHY MANUFACTURERS, acting as distributors of their proprietary articles, while profits are reduced by RECKLESS CUTTING to a mere fraction.

The proposition now offered could not, we believe, be more EQUITABLE and is unassailable by the most captious critic—it is practically the taking of Retailers into PARTNERSHIP.

OUR PRODUCTS ARE OF GENUINE MERIT and the prices both to the Trade and Public are equally attractive.

Will you join hands with us and by JOINT ENDEAVOUR make the Shares of the MARZA MANUFACTURING COMPANY a valuable INVESTMENT to our MUTUAL BENEFIT?

The shares will be allotted strictly according to priority, the preference being given to the Medical Profession and Pharmacists.

In conclusion we would suggest you making your first order as large a one as possible in order to derive the advantage of the present unparalleled opportunity of acquiring a substantial interest in this business.

We have the honour to remain,

Your obedient Servants,

The MARZA SYNDICATE LIMITED,
(Founders of the Marza Manufacturing Company, Limited).
ARTHUR H. DEAKIN, Managing Director.

Half-page Advertisements are appearing, amongst others, in the following Papers:—*The Illustrated Sporting and Dramatic, The Queen, The Gentlewoman, The Lady's Pictorial, Truth, Hearth and Home, Pall Mall Magazine, Belgravia, London Society, Good Health, The Million, The Church Times, The Lamp, The Tablet, Temple Bar, The Sketch, Piccadilly, Moonshine, Myra's Journal*, and numerous other London and Provincial Papers.

You will be asked for Marza Wine, therefore don't lose the present chance of obtaining terms which cannot be offered in the future.



TO FIRST PURCHASERS ONLY.



ORDER FORM.

To the Directors of

The Marza Manufacturing Company, Limited,

19 & 21, WILSON STREET, FINSBURY, LONDON, E.C.

Please supply—

..... doz. MARZA WINE,
at 45/- per doz. ... ... £.....

..... doz. MARZA MEAT & MALT WINE,
at 45/- per doz. .. .. £.....

£

Less Trade Discount of 20 °/₀ ... £.....

£.....

It being hereby agreed that the Founders of the Company cause to be transferred to (me or us) ..... the approximate equivalent of the nett amount of the Invoice, in fully-paid Shares of the MARZA MANUFACTURING CO., Limited, of the nominal value of £2 each, and (I or we) .....on our part, undertake not to retail the goods supplied by you under the advertised selling price. The goods to be delivered, Carriage Paid. (*Ireland and Scotland to Shipping Ports only.*)

TERMS—One Month, strictly Nett.

To cover cost of Transfer, Certificate, &c., the sum of Two Shillings and Sixpence per Share will be added to the Invoice Price, and immediately upon payment of the account a Share Certificate is to be forwarded to (me or us).....

Signed.....

Name of Firm.....

Address.....

Trade or Bank Reference.....

The Shares are fully paid up and absolutely free from liability.

The Shares are fully paid up and absolutely free from liability.

SPECIAL TERMS FOR EXPORT SUPPLIED ON APPLICATION.

OLD FRIENDS ROUND THE FIRESIDE

Happy and Comfortable

AFTER A FEED OF

SPRATT'S PATENT

"From Our Humble Friends"

BY

Dr. Gordon Stables.



By Permission

OF

Mr. John Bellows.

MEAT FIBRINE VEGETABLE

DOG CAKES

(WITH BEETROOT).

TRADE TERMS of

SPRATT'S PATENT, LIMITED, LONDON,

OR YOUR WHOLESALE HOUSE.

SPRATT'S PATENT
Dog Medicines

ON SCIENTIFIC LINES

WHICH YOU ARE SAFE IN RECOMMENDING

Each Box or Bottle bears full Directions for Use.

Pamphlets for Canine Diseases for Gratuitous Distribution.

RETAIL PRICES.

Alterative Cooling Powders ... 1/- per Box.
„ „ „ ... ... 2/6 „
„ „ „ ... ... 5/- „
Aperient Tasteless Biscuits ... 2/- „
Chronic Skin Disease Cure ... ... 1/- „
„ „ „ ... ... 2/6 „
Cough Pills ... ... 1/- „
„ ... ... 2/6 „
„ ... ... 5/- „
Chemical Food ... ... 1/- per Bottle.
Chorea (St. Vitus' Dance) Pills ... 1/- per Box.
Diarrhœa Mixture ... ... 1/6 per Bottle.
„ „ ... ... 2/6 „
Distemper Powders ... ... 1/6 per Box.
„ „ ... ... 2/6 „
Distemper Pills ... ... 2/6 „
Ear Canker Lotion ... ... 1/- per Bottle.
„ „ .. .. 2/6 „
„ „ ... ... 5/- „
Eczema Lotion ... ... 1/6 „
„ ... ... 2/6 „
Hair Stimulant ... ... 1/- „
Jaundice or "Yellows" Pills ... 1/- per Box.
Locurium (Patent). For Animal use ... ... 6d. per Bottle.
Locurium (Patent). For Animal use ... ... 2/- per Bottle.
Locurium Oil (Patent). For Human use. Price including Government Stamp ... ... 7½d. „
„ „ „ „ 2/3 „
Mange Lotion ... ... 1/- „
„ „ 2/6 per Quart Jar, 4/- per ½ Gallon Jar, or 7/6 per Gallon Jar.
Medicine Chest contains various Dog Medicines, and in addition Lancets, Seton Needles, Scissors, &c. Price 25/- per Chest.
Purging Pills ... ... 1/- per Box.
„ „ ... ... 2/6 „
Rheumatic and Sprain Liniment ... 1/- per Bottle.
„ „ „ ... 2/6 „
Rheumatic and Chest Founder Pills 1/- per Box.
Tonic Condition Pills ... ... 1/- „
„ „ ... ... 2/6 „
SOAP for Dogs, in Boxes of 3 and six Tablets ... . 4½d. per Tablet.
Vegetable Puppy Vermifuge ... 1/- per Box.
Worm Powders ... ... 1/- „
„ „ ... ... 2/6 „
Worm Pills ... ... 1/- „

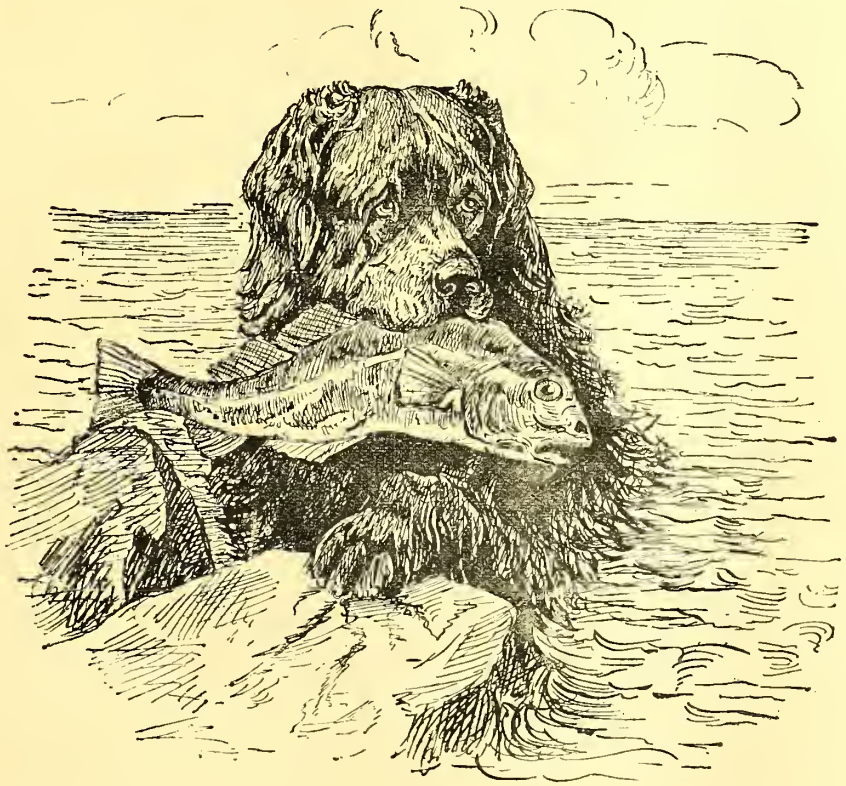
OTHER CANINE REQUISITES.

Patent Meat "Fibrine" Vegetable Dog Cakes, with Beetroot 20/- per cwt.
Patent Fish and **Meat "Fibrine" Dog Cakes,** with Beetroot ... 20/- „
Patent Greyhound Meat "Fibrine" Vegetable Dog Cakes, with Beetroot, containing 35 % Meat ... ... 21/- „
Hound Meal ... ... 18/- „
Plain Round Oatmeal Dog Biscuits ... ... 15/- „
Plain Round Dog Biscuits ... 15/- „
Pet Dog Biscuits (about 7 lbs. Nett) 2/6 per 7 lb. tin
„ „ („ 14 „) 5/- „ 14 „
„ „ 14/6 per ½-cwt. case, 28/- per cwt. case
Patent Cod Liver Oil Dog Cakes, large size, for full-grown Dogs 21/- per cwt. bag
Special Cod Liver Oil Biscuits, small size— 2/- per 7 lb. tin; 4/- per 14 lb. tin 14/6 per ½-cwt. case; 28/- per cwt. case.
Prepared Puppy Food, for feeding Pups from a Bottle when the Bitch is dead, or is deficient in milk, and until weaning ... ... 3/- per tin
Pepsinated Puppy Meal for use from weaning, in 3d., 1/-, 3/-, 6/- and 12/- tins
Puppy Biscuits ... ... 20/- per cwt.
„ „ (about 7 lbs. Nett) 2/- per 7 lb. tin
„ „ („ 14 lbs. „) 4/- „ 14 lb. „
Charcoal Biscuits for Dogs ... 20/- per cwt.
„ „ 2/- per 7 lb. tin, 4/- per 14 lb. tin
Bone Meal for Puppies ... ... 1/- per tin
Bone Meal for Adult Dogs ... 14/6 per cwt.

Trade Terms of SPRATT'S PATENT, LIMITED, Bermondsey, S.E.

SPRATT'S PATENT

Cod Liver Oil

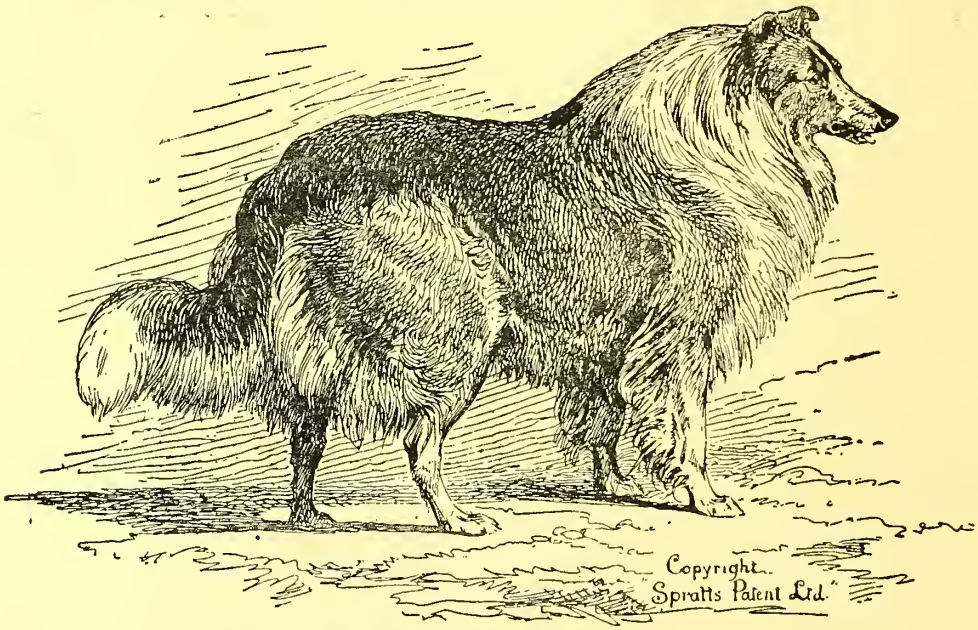


DOG CAKES

FOR ALL CASES OF

ANÆMIA.

Happy and Free from Fleas



through use of

SPRATT'S PATENT

Improved

DOG SOAP

An Elegant Non-Poisonous Preparation,

Which is also largely used in the Nursery
FOR CHILDREN'S HAIR.

It will not injure the most delicate Skin or the Hair.

DOGGIE BOOKLETS for GRATUITOUS DISTRIBUTION on Application.

Trade Terms of SPRATT'S PATENT, Limited, Bermondsey, S.E.

1st Class Certificate Exhibition of Sanitary Appliances, Nottingham, 1892.
GOLD MEDALS—Ostend, 1888; Antwerp, 1886; Paris, 1885; Calcutta, 1884.

1/-

EACH.

1/3

POST FREE.



"Sanitas" is Nature's only Disinfectant, embodying all the healthful principles generated in Pine, Eucalyptus and Camphor Forests, as explained in his work on "Nature's Hygiene," 3rd Edition (Baillière & Co.), by C. T. KINGZETT, F.I.C., F.C.S.

"SANITAS" FLUID is FRAGRANT, perfectly NON-POISONOUS and DOES NOT STAIN; and the fact that the "SANITAS" DISINFECTANTS are in use by most Local Boards of Health, Hospitals, and other Public Bodies in Great Britain, shows that "SANITAS" IS SUPERIOR TO ALL OTHER DISINFECTANTS.

"Disinfect to keep out disease;
Don't wait until compelled to disinfect to drive it out."—T. B. C.

"SANITAS"

Prevents Contagion and Infection.
Is Death to all Disease Germs.
Vivifies the atmosphere of the Sick Room.
Corrects all fœtid odours.
Keeps Sinks and Drains from generating foul gases.
In the bath is often a necessity and always a luxury.
Entirely removes offensive Bodily odours.
Is not poisonous and does not stain or corrode.
Has the odour of the Pine Forest.
In Times of Health is a Guardian.
In Times of Sickness is Indispensable.
Is the Nurses' Handmaid.
Is the Household's Protector.

Has a record of Sixteen Years' Unvarying Success.
Has received Highest Awards at Exhibitions throughout the Civilised World.
Has received the Unqualified Endorsement of the most Advanced Scientists.

N.B.—NEW EXPERIMENTS made recently by Dr. A. B. GRIFFITHS have established the fact that "Sanitas Fluid," "Sanitas Oil," and "Sanitas Emulsion" readily kill the Microbes of Cholera, Typhoid Fever, Scarlatina, Diphtheria, Tuberculosis, &c., &c., and also destroy the Toxines that they produce. Copies of Dr. GRIFFITHS' report, in pamphlet form, up to 50 in number, as may be required, will be forwarded free on application.

THE SANITAS CO., LIMITED.

[*See following pages*, 162, 163.



The Mark here shown and the fancy word "SANITAS" alone are our Two Registered Trade Marks.

REGISTERED



"SANITAS"
TRADE MARK.

LIST OF THE SANITAS COMPANY'S PRODUCTS.

"SANITAS" DISINFECTING FLUID.—1*s.* pint bottles; also in jars and casks, 5*s.* per gallon. The first requisite in all dwelling-houses, sick-rooms, and hospitals for spraying in the air, washing wounds, gargling sore throats, disinfection of linen, sprinkling on sheets, use in baths, &c. This fluid is **fragrant, non-poisonous, colourless,** does not stain or stick, and gives off oxygen.

"SEA-WATER SANITAS."—2*s.* bottles, and 10*s.* per gallon. Combines the disinfecting properties of "Sanitas" with the tonic and antiseptic properties of sea-water, and is particularly valuable for use in the bath, and as a *deliquescent* disinfectant agent.

SPRAY PRODUCERS for distributing these Fluids:—
"Bellows" pattern 2s. 6d. each,
"Pump-Sprays" 2s each.

"SANITAS" DISINFECTING OIL.—1*s.* and 4*s.* bottles; also in jars and casks, 15*s.* per gallon. For the fumigation of sick-rooms, hospital wards, and infected apartments; for the antiseptic treatment of lung and throat complaints by (moist) inhalation; for the prevention and treatment of influenza, and for employment as a surgical dressing. It is also a specific for the cure of husk of cattle, ringworm, and rheumatic complaints.

"SANITAS" SOLUBLE OIL.—In 1*s.* bottles, and 15*s.* per gallon. Is prepared from "Sanitas" Oil, for disinfecting, fumigating, and cleansing purposes only. It is miscible with water in any proportion.

"SANITAS" DISINFECTING EMULSION.—1*s.* bottles, and 12*s.* per gallon. Very powerful for general disinfecting purposes outside the house; or it may be employed, if preferred, for fumigating purposes in place of the Oil.

"CRUDE SANITAS."—1*s.* bottles, and in drums or casks, 5*s.* per gallon. A cheap concentrated form of "Sanitas," for rough use as a disinfectant. It is miscible with water in any proportion, and may be diluted with from 20 to 500 times its own volume of water. Particularly useful for the disinfection of sewers, closets, ash-bins, drains, stables, kennels, farmyards, bilge-water, and for street watering.

"SANITAS" INSECTICIDE, LIQUID SOAP AND SHEEP DIP.—1*s.* bottles, and in drums or casks, 5*s.* per gallon. For the destruction of insects on plants, trees, and animals, for general use as a liquid soap, including washing of woodwork in conservatories and stables; and preventing the incrustation of boilers. Unrivalled for sheep-dipping, and for the cure of rot, scab, and other diseases of animals. It bleaches and softens the wool and kills all insects.

"SANITAS" TOILET FLUID.—1*s.* and 2*s.* 6*d.* stoppered bottles. For washing the teeth and mouth, and curing offensive breath: for use also in finger-glasses and in cascades, &c. **Invaluable to Smokers.**

"SANITAS" DISINFECTING POWDER.—6*d.* and 1*s.* dredgers; also in ¼-cwt. casks, 4*s.*; ½-cwt. casks, 7*s.* 3*d.*; 1-cwt. casks, 12*s.* 6*d.* **For disinfecting urinals, earth closets, stables, kennels, drains, farmyards, sewer-mud, and all offensive and putrid substances.** It is the most powerful disinfecting powder known to science, and is **used by most Local Boards of Health, Railway and Shipping Companies, Horsekeepers, &c.**

"SANITAS" TOOTH POWDER.—1*s.* boxes. An admirable antiseptic preparation for cleansing and preserving the teeth.

"SANITAS" TOILET OR NURSERY POWDER.—1*s.* boxes. **Free from all mineral substances,** and most effective in the nursery.

LIST OF THE SANITAS COMPANY'S PRODUCTS—*Continued.*

"SANITAS" AIR PURIFIER (Sawdust).—1*s.* tins, and in packages of 7 lbs., 2*s.* each; 14 lbs., 3*s.* 6*d.*; 56 lbs., 5*s.* 6*d.*; and 10*s.* per cwt. For purifying the air of dwelling-rooms, closets, &c., by placing in saucers and sprinkling upon floors; and for the disinfection of dog kennels, poultry houses, stables, cattle sheds, &c., all of which it keeps free from disease.

"SANITAS" SOAPS (DISINFECTANT AND ANTISEPTIC):

Hard Soap, No. 1. 6*d.* bars and by the cwt. For household use and in the bath.

Hard Soap, No. 2. 4*d.* bars and by the cwt. For scrubbing and for servants' use, also for washing linen and clothes. This excellent soap is in **use at most Laundries, Workhouses, and Hospitals** in Great Britain.

Toilet Soap, 1*s.* 6*d.* boxes of 3 tablets. This most delicious transparent soap is especially free from alkali, and is strongly recommended by the Medical Faculty as **the best Soap for the skin.**

Family Soap, boxes of 3 dozen tablets, at 6*s.* per box. Strongly recommended for general domestic employment.

Brown Windsor, 7-lb. boxes, at 4*s.* 8*d.* each, and in 14-lb. boxes, at 9*s.* 3*d.* each. An excellent article **for hotels and warehouses.**

Soft Soaps, No. 1, in tins, and Nos. 1 and 2, in ¼, ½, and 1-cwt. kegs. Quite **free from all unpleasant odour,** and powerfully disinfectant.

Dog Soap.—6*d.* boxes. A grand preparation for dogs and cats.

Animal (Soft Soap).—1*s.* pots, and in kegs of ¼ and ½ cwt. and upwards. For washing horses, cows, sheep, &c.; for the cure of mange and other skin diseases of animals, and for the destruction of insects.

Soap Powder.—In kegs only, from 7*s.* 6*d.* to 74*s.* The most powerful disinfectant and detergent "dry soap" known.

"SANITAS" DISINFECTING JELLY.—1*s.* pots and 3*s.* 6*d.* gallipots. For dressing cuts, chaps, wounds and burns, and for general use as an antiseptic emollient.

"SANITAS" CREAM.—In 1*s.* collapsible tubes. A plastic antiseptic dressing, soluble in water and more penetrating than ointments. For use during desquamation after fever, and for dressing burns, wounds, sores, insect stings, abrasions, and perspiring feet. Dissolved in water, it makes an excellent wash for the mouth and teeth.

"SANITAS" VETERINARY OINTMENT.—2*s.* 6*d.* tins. Invaluable for application to all wounds, sores, sprains, broken surfaces and skin diseases in the horse, dog, cat, and other animals. **Prevents and Cures Mange.**

"SANITAS" FURNITURE PASTE.—1*s.* bottles. For polishing articles of furniture and disinfecting dwelling-rooms, or hospital wards, at the same time.

"SANITAS" DISINFECTING FUMIGATORS.—3*s.* 6*d.* each. For fumigating and disinfecting sick-rooms and hospital wards, and for use in the **treatment of sore throat, asthma, influenza, winter cough, bronchitis, diphtheria, and consumption.** This appliance effectually **prevents the spread of disease in the house.**

"SANITAS" DRY INHALER.—2*s.* 6*d.* For use in cases of lung and throat affections. It is charged with a dry mixture containing a large proportion of all the healthful principles that are generated in nature by Pine and Eucalyptus Forests.

"SANITAS" ANTISEPTIC GAUZE.—For surgical purposes, 2½*d.* per yard.

"SANITAS" ABSORBENT WOOL.—Medicated for hospital use, 2*s.* per lb.

"SANITAS" DISINFECTING URINAL TABLETS.—1*s.* boxes of 6 tablets. For keeping urinals sweet and wholesome. With holder for W.C. cisterns, 1*s.* 3*d.*

"SANITAS" ANTISEPTIC LOZENGES.—Tins, 1*s.* 1½*d.* each. For use in typhoid fever, cholera, diarrhœa, bronchitis, putrid sore throat, &c.

"SANITAS" TOILET PAPER.—1*s.* packets, and rolls.

"THE SANITAS-EUCALYPTUS DISINFECTOR" (*see illustration at head of page* 161), an automatic appliance for purifying and scenting the air of dwelling and sick rooms, passages, hospital wards, closets, cellars, stables, &c., 1*s.* each.

INVALUABLE FOR PREVENTING INFLUENZA, ETC.

"SANITAS-EUCALYPTUS OIL." 1*s.* bottles. For recharging "Sanitas-Eucalyptus Disinfectors," and for general use in place of ordinary Eucalyptus Oil, as a volatile antiseptic purifying agent.

ALSO SOLE MANUFACTURERS OF

"KINGZETT'S MERCURIC BACTERICIDE," AND "PATENT PRESERVED PEROXIDE OF HYDROGEN."

SOLE MANUFACTURERS:—

THE SANITAS COMPANY, LTD.

Letchford's Buildings, Three Colt Lane, Bethnal Green, LONDON, E.

FOUND DEAD!

KILLED BY SANFORD'S RAT POISON,

Which is said by Farmers to be the best and most effective ever introduced. Mr. Bliss, Farmer, Helethorpe, Leighton, writes, "That from one dressing he found 136 dead Rats next morning." Ald. Ashton, of Huntington, says he killed 70 Rats with a 1s. box of SANFORD'S RAT POISON. J. Long, Esq., of Carlton, states that he found over 300 Rats killed by using a 10s. tin of Poison. Price 6d., 1s., 2s., 3s., and 5s. per tin. To be had of all Chemists, or

SANFORD & SON, SANDY, BEDS.

Wholesale of Maw, Son & Thompson, Newbery & Son, Edwards & Son, and others, London.

DR. LANGEN'S

SUGAR OF MILK

GUARANTEED ABSOLUTELY PURE.

In 1-lb. Tins only.

To be obtained of all Wholesale Houses, or of

Burroughs Bros., 66 Basinghall St., London, E.C.

RUBBER STAMPS AT HALF THE USUAL TRADE PRICES.

CRYSTAL PALACE JOHN BOND'S GOLD MEDAL RUBBER STAMPS

BEST & CHEAPEST IN THE WORLD.

EVERY DESCRIPTION OF RUBBER STAMPS, DATING MACHINES, MONOGRAMS,

AND EVERY SPECIALITY IN METAL BODIED INDIA RUBBER TYPE, &c., FOR MARKING LINEN, PAPER, INDORSING

And General Business Purposes.

PATENT FACED WITH 18 CARAT GOLD. Write for ILLUSTRATED PRICE LIST Post free on Application.

A saving of 50 per cent. by using our make. Send for quotation before placing order elsewhere.

WORKS & OFFICES—75 SOUTHGATE ROAD, LONDON, N.

THE SURGEONS' LINT,

V.B. QUALITY.

The superior quality of **Newsome's Absorbent Surgeons' Lint** is universally admitted. The V.B. quality is quite pure and of great superficial area and exquisite softness. The C., D., E., and F. qualities are equally pure and absorbent; E. is stronger in fabric.

NEWSOME'S BLEACHED ROLLED BANDAGES, 3 in., 2½ in., 2 in. Also SURGICAL ABSORBENT OPEN BANDAGES.

Specially Bleached & Grey Carded Cotton Wools, Absorbent & Bleached & Grey Waddings; also Sheet Waddings, Tow, &c.

THE TRADE SUPPLIED THROUGH THE LONDON AND PROVINCIAL WHOLESALE HOUSES, OR FROM

C. NEWSOME, MANUFACTURER, BEEHIVE MILLS, ANCOATS, **MANCHESTER.**

London Agents—B. PRATT & CO., 1 Wood Street, E.C. *Telegraphic Address*—"Newsome, Ancoats, Manchester."

WOODS & CO.'S KANGAROO ISLAND

RECTIFIED OIL OF EUCALYPTUS.

Registered "LUBRA BRAND" throughout the World.

Owing to the low temperature and the species of Eucalypt grown on Kangaroo Island, S. Australia, which we use in the preparation of *our Oil*, we are enabled to produce a

SUPERIOR COLOURLESS OIL,

boiling at 320° Fahr. (160° Cent.), distilling over at 340° Fahr. (170° Cent.), and, consequently, gives the low specific gravity of ·900.



REGISTERED

This Oil dissolves 25 per cent. Salicylic Acid, showing greater purity than any other.

Eighty parts of Proof Spirit dissolves one part of our Oil, without producing any milky opacity.

When redistilled yields **EUCALYPTOL** of the same specific gravity and quality as when prepared by Cloez's process.

Mr. JAS. PARKINSON, F.C.S., of the Royal College of Chemistry, London (formerly Analyst to the S. Australian Government for 8 years), in his report, says it is **superior to other productions,** and virtually **Eucalyptol.** We invite a trial. The Trade and Medical Profession will find this the *best Oil* to keep in stock for Dispensing and other use.

Put up in 1-lb. Bottles for the Trade, and in Bottles at 1s. 3d. each for Retailing; also in 20 or 25 lb. Hand-made Tins.

WOODS & CO., Cowra Chambers, Grenfell St., ADELAIDE, S.A.

London Agents—F. & S. CHIESMAN & CO., 118 BISHOPSGATE STREET.

BOSISTO'S "STANDARD TEST"

EUCALYPTUS OIL

PARROT BRAND.



Sold only in 1-lb. and 2-lb. Bottles.

This Oil is the product of Fresh Eucalyptus Foliage obtained from the Desert species, Dumosa and Oleosa, and yields under proper treatment 35 per cent. water-white crystallisable Eucalyptol, having the specific gravity, 0·920, Temp. 15° Cent., crystallising at 14° Cent., and re-melting at 1° Cent. **BOSISTO'S EUCALYPTUS OIL** received the Silver Medal of the Society of Arts for the introduction into commerce of the Essential Oil of the Eucalyptus from Australia, 1866, and has been awarded at various European, American, and Australian Exhibitions since 1853, **10 Gold Medals, 8 Silver Medals, 18 Bronze Medals.**

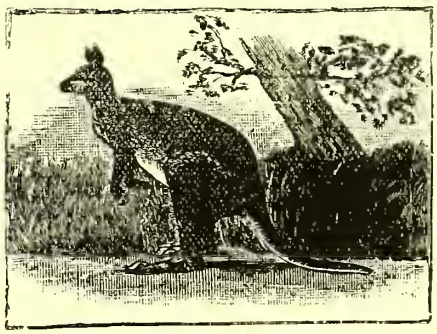
Quantities less than original packages supplied by Messrs. Allen & Hanburys, Barron, Harvey & Co., A. S. Hill & Sons, Hockin, Wilson & Co., London & Manchester; Hodgkinson, Treacher & Clarke; Grimwade, Ridley & Co., Ipswich Or in **original cases only,** containing either 36 1-lb. bottles, or 25 2-lb. bottles, by the **Sole Consignees,**

GRIMWADE, RIDLEY & CO., 82 BISHOPSGATE ST., LONDON.

KANGAROO

EUCALYPTUS OIL

25-lb. Tins. **KANGAROO**



25-lb. Tins. **BRAND.**

TRADE MARK.

Is admitted to be the Purest Eucalyptus Oil yet introduced to the public.
To be obtained of your Wholesale Druggist.

SOLE CONSIGNEES—LAUGHLAND, MACKAY & BAKER, 50 Lime St., LONDON.

COLONIAL ADDRESS—A. M. BICKFORD & SONS, WHOLESALE DRUGGISTS, 46 CURRIE STREET ADELAIDE.

JEYES' FLUID

THE NON-POISONOUS DISINFECTANT.

A TRUE GERMICIDE & DEODORISER,

Somewhat less refined than **CREOLIN**, the virtues of which are

RECOGNISED BY MEDICAL AUTHORITIES ALL OVER THE WORLD.

Jeyes' Fluid and its Preparations

SHOULD BE RECOMMENDED BY THE CHEMIST EVERYWHERE WHO DESIRES TO SUPPLY ONLY RELIABLE ARTICLES.

PRICE LIST
(ABBREVIATED).

Jeyes' Fluid.

Retail Prices. s. d.		Trade Prices. s. d.
0 6	Sixpenny Bottles (bottles included)	4 0 per doz.
1 0	Shilling "	7 0 "
3 6	½-gall. Iron Drums (drums included)	2 6 each
6 0	1-gall. Drums " "	4 6 "
11 6	2-gall. " " "	8 6 "
28 6	5-gall. " " "	20 0 "
55 0	10-gall. " " "	38 6 "
Per gall.		
5 0	20 and 40 gall. Casks (casks free, not returnable)	3 6 per gall.
1 1½	Universal Perfect Purifier (in bottles)	8 6 per doz.

Sanitary Powder.

1 0 each	Canisters, in boxes of 1, 2, or 3 doz.	7 0 per doz.
0 6 "	" " "	4 0 "

(Also in Casks and Bags.)

Disinfectant (Brown) Soap or Household (White) Soap.

No. 1 QUALITY.—(In 1-lb. Bars, papered.)

Per cwt.		
31 6	In 1-cwt. Boxes	28 0 per cwt.

(Also in Small Packages.)

No. 2 QUALITY.

Retail Prices. s. d.		Trade Prices. s. d.
25 6	In 1-cwt. Boxes	22 0 per cwt.

(Also in Small Packages.)

Triple Milled Toilet Soaps.

Elegant Tablets for the Toilet, of finest quality, containing the Antiseptic Properties of "Jeyes' Fluid."

Per box.		
1 6	Perfect Purifier, in Boxes of 6 Tablets	1 0 per box.
1 6	Coal Tar, per Box of 6 Tablets	1 0 "
2 0	Old Brown Windsor, in Boxes of 12 Tablets	1 6 "
2 6	Toilet (Scented), in Boxes containing 6 Tablets	1 9 "
2 6	Sublime Toilet (Unscented) in Boxes of 6 Tablets	1 9 "
3 0	Sublime Toilet (Scented)	2 0 "
2 0	Boudoir Tablets (Perfumed), in Boxes of 3 Tablets	1 4 "
5 0	Transparent, Complexion, in Boxes of 12 Tablets	3 0 "

Toilet Preparations.

1 0 each	Tooth Powder, in Metal Boxes	7 0 per doz.
1 0 "	" Soap, " "	7 0 "
2 0 "	Dentifrice Water, in Bottles, with Sprinkler	15 0 "
3 6 "	Spray Diffuser, in Box complete	30 0 "

Sheep Dip, Wood Preserver, and other Agricultural Preparations.

TERMS, 2½ PER CENT. DISCOUNT AT ONE MONTH.

All Goods delivered Free in London. For the Country, Free at any London Railway Station or Wharf.

FULL PRICE LIST ON APPLICATION.
ALSO
A NEW MEDICAL PAMPHLET,
With Recent Opinions of English Medical Men, free on request.

JEYES' SANITARY COMPOUNDS CO. Ltd.

43 CANNON STREET, LONDON, E.C.

NON-POISONOUS! NON-CAUSTIC! NON-CORROSIVE!



Fac-simile of the One Shilling Bottle, which will make 10 Gallons of Strong, Reliable, Non-poisonous Disinfectant.

"IZAL"

THE NEW NON-POISONOUS ANTISEPTIC,

Prevents infection in cases of Cholera, Small-pox, Diphtheria, Influenza, Scarlet, Typhus, and Typhoid Fevers, and practically covers the whole field of Infectious Diseases.

RETAIL IN BOTTLES,

1/-, 2/6 & 4/6

SOLE PROPRIETORS AND MANUFACTURERS—

NEWTON, CHAMBERS & Co., LTD.

THORNCLIFFE, SHEFFIELD.

LONDON OFFICES—

19 Great George Street, Westminster; and Thorncliffe House, 331 Gray's Inn Road, W.C.

Reports on IZAL by the highest Medical and Sanitary Experts, with Papers giving Uses and Applications, sent post free.

IZAL IS STOCKED BY ALL WHOLESALE AND EXPORT HOUSES.



I WILL pay **£5** to the first person, whether Chemist, Assistant, or one of the Public, who will afford me such information (which I engage to treat as absolutely confidential) as shall lead to the conviction of anyone who improperly substitutes other Powder for mine. I call attention to the case below.

As a matter of fact, I took this course last year, and in the end the reward and heavy costs came out of the substituter's pocket; and I have every reason to believe that the course I adopted was highly satisfactory to the neighbouring Chemists, as well as to the Public and myself.

THOMAS KEATING,
12, Bride Lane, London.

A "STORES" CAUGHT!

Mr. JUSTICE STIRLING.—October 30, 1891.

KEATING *v.* KIBBLE.

THE Defendants are Proprietors of large Stores at Deptford, and when asked for "Keating's Powder," sold by their shopmen an article not made by me. The Defendants denied that this was done with their knowledge, and this may be conceded, but it cost them over £40, although in this instance I pressed my Solicitors to be as considerate to them as possible. The Court ordered the Defendants to pay the whole costs of the action, and issued an injunction restraining them from offering for sale any preparation other than that prepared by Thomas Keating under the name of "Keating's Insect Powder."

HEAVY DAMAGES.

Chancery Division—Mr. JUSTICE NORTH—October 26, 1886.

KEATING *v.* POLL.

IT WAS ORDERED—

That the Defendant be perpetually restrained from stating or causing to be stated that Keating's Persian Insect Destroying Powder contains any substance poisonous to animals or human beings, or from making any statement to the effect that such Powder is dangerous to animals or human beings.

IT WAS FURTHER ORDERED—

That the Defendant, William Sheppard Poll, do pay to the Plaintiffs their costs of this action.

"Liquor Carbonis Detergens"

"A valuable addition to our list of Skin Remedies" LANCET.

"We can affirm its value as a Detergent agent and as an article of great utility" BRITISH MEDICAL JOURNAL.

"One of the best Tarry Lotions" PRACTITIONER.

"We have more than once called attention to the value of this remedy in Chronic Eczema" MEDICAL TIMES & GAZETTE.

"Most effective in Skin Diseases" LANCET.

"The only true antiseptic Soap" BRITISH MEDICAL JOURNAL.

Wright's Coal Tar Soap

THE ORIGINAL AND ONLY GENUINE COAL TAR SOAP.

THIRTY YEARS REPUTATION.

PROPRIETORS AND MANUFACTURERS.

Wright Layman & Umney, (late W. V. Wright & Co.) Southwark, London, S.E.

WILEY'S
CHEMICAL ESSENCE
FOR
LAMENESS in HORSES

A Genuine Remedy. Brings credit to all who sell it.

50 YEARS' UNBROKEN SUCCESS

SOLE MAKER AND PROPRIETOR,

FRANCIS E. ROOKLEDGE, CHEMIST,

EASINGWOLD, YORK.

TO BE HAD OF USUAL WHOLESALE HOUSES.

STEINER'S VERMIN PASTE

FOR DESTROYING

RATS, COCKROACHES, ETC.

IN [TRY IT]

3d., 6d., & 1/ Glass Jars; 2/6 & 5/ Tins.



Warranted to Keep for Export. REGISTERED.

STEINER'S VERMIN KILLER

FOR [NEVER FAILS]
DESTROYING
MICE, ETC.



1*d.*, 3*d.*, 6*d.*, and 1*s.* Packets.

STEINER'S INSECT POWDER

PRIME DALMATIAN.

ENGLISH GROUND.



The most energetic Insecticide. Kills Bugs, Fleas, and all offensive Insects. Quite harmless to Domestic Animals.

1d., 3d., 6d., & 1s. Tins (& Bellows).

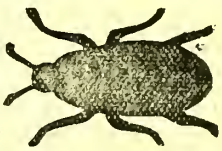
Also in 7-lb. and 56-lb. Tins, and in Kegs of 1 cwt. and upwards.

E. Steiner & Co. are Sole Proprietors & Manufacturers of

JAMES'S PHOSPHOR PASTE

FOR DESTROYING

BEETLES, RATS, MICE, ETC.



Sold in 1*d.*, 3*d.*, 6*d.*, and 1*s.* Glass Jars.

May be obtained through all the Wholesale Houses, or direct from

THE WORKS, LIMEHOUSE, LONDON, ENGLAND

DAY, SON & HEWITT'S
NEVER FAILING HORSE, CATTLE & SHEEP MEDICINES.

THE CHEMICAL EXTRACT.

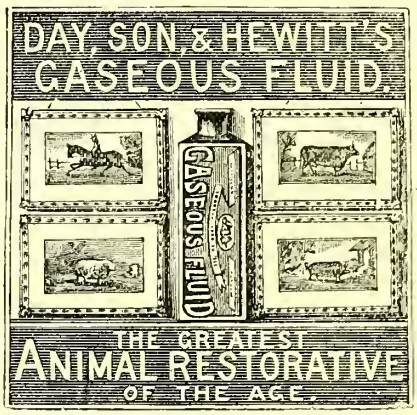
For Kicks, Cuts, Bruises, Sore Withers, Swellings Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

Price 2s. 6d., 3s. 6d., and 7s. per Bottle.

THE CASEODYNE,

Used as Laudanum for parturition in Mares, Cows, and Ewes, when there is great pain exhibited with feverish symptoms. Highly beneficial for Inflammatory Colic or Enteritis, and for severe forms of Diarrhœa.

Price 3s. 6d. per Large Bottle.



For Fret, Colic, or Gripes in Horses, Hoven or Blown Sheep, and General Debility in Stock; of exceptional value for Colds, Chills, Scour, Diarrhœa, and weakly Lambs and Calves.

Price 1s. 9d. per Bottle, 20s. per doz.

THE RED DRENCH.

For Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Pleurisy, Hidebound, Red Water, &c. Admirably adapted for cleansing and checking feverish symptoms in Cows and Ewes after a bad time of Calving or Lambing.

Price: for Cows, 13s. per doz.; for Ewes, 3s. 6d. per doz.

THE BRONCHOLINE.

For Husk or Hoose in Heifers, Calves, Sheep, and Lambs, also Tape-worms in Tegs. No parasite can exist in the windpipe or air-passages after the blood has been impregnated with this worm-destroying medicine.

Price 2s. 6d. per Bottle.

THE ORIGINAL
STOCK-BREEDER'S MEDICINE CHESTS,
For Horses, Cattle, and Sheep. Prices, £1 8s. 9d. and £2 16s. 6d.

THE ORIGINAL
HORSE-KEEPER'S MEDICINE CHESTS,
For all ailments in Horses. Prices, £1 10s. and £2 17s. 6d.

ROYAL ANIMAL MEDICINE MANUFACTORY, 22 DORSET ST., LONDON, W.

Liberal Discount to Foreign Buyers. Trade Terms and full particulars on application.
Attractive Show-cards and Handbills sent with each order.

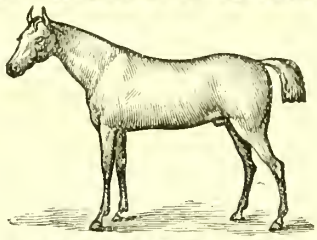
A VALUABLE AGENCY!!!

BIRD'S BOTANIC ESSENCE

(REGISTERED TRADE MARK).

THE CERTAIN CURE

For Curbs, Splints, Spavins, Strains in the Back Sinews, Windgalls, Capped Hocks, Sore Throats, &c., in Horses.



As used in the Stables of the Royal Families, Nobility, the leading Trainers, and largest Horse Owners throughout the World for over 60 years.

Obtains a large sale (and affords a handsome profit) wherever introduced. May be procured of all Wholesale Houses, or direct from Sole Proprietors—

BIRD & STOREY, 42 Castle Street East, Oxford Street, **LONDON, W.**

PAPIER MOURE. PAPIER MOURE.

Per 1,000, 19/- 5 per cent. Monthly a/c.

IN QUANTITY OF NOT LESS THAN 5,000,

10 per cent. off INVOICE and 5 per cent. MONTHLY a/c.

WHOLESALE AGENTS—

S. MAW, SON & THOMPSON, ALDERSGATE ST., LONDON.

DAY & SONS, CREWE,

ANIMAL MEDICINE SPECIALISTS.

THE RED DRINK

Cures Fever and Costiveness in Cattle.
Cleanses and Cools the Blood and System.
For Red Water, Indigestion, and Yellows.
Cures Bad Cleansing and Prevents Milk Fever.

Price 12s. per dozen Packets.

"EWE DRENCH" acts as above for Sheep. 3s. 6d. per doz.

THE

"PURIFIED" DRIFFIELD OILS

Day's Black Oils; Day's Oils.

Heals Wounds of all kinds in all Animals.
Heals Saddle & Stake Wounds & Cracked Heels.
Heals Sore Teats and Swollen Udders in Cows.
For Anointing in Bad Lambing and Calving.

Price 2s. 6d. and 6s. per Bottle.

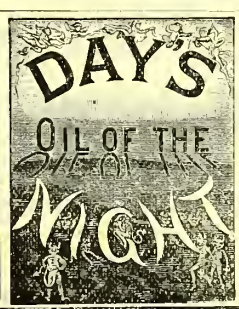


BEWARE OF COPYISTS.

Day's Black Drink

Is the most popular and certain Veterinary Remedy in the World Don't confound it with Elixirs, Draughts, &c., which for obvious purposes are called "Black." The title is a registered one, but many "black" things are offered in its name; the only genuine is prepared by

Days of Crewe.



What's good for

BODILY PAIN?

DAY'S OIL OF THE NIGHT

The People's Embrocative Balm for Sprains, Muscular Weakness, Rheumatism, Lumbago, Cramp, Sore Throat from Cold, Sciatica, &c., and all Aches, Pains, and Soreness.

Send for "Day's Oil of the Night" terms, framed to prevent CUTTING.

Chemists can have a Single Bottle direct. Price 1/1½ & 2/9 per Bot.

DAY & SONS, CREWE, CHESHIRE.

Day's Oil of the Night

You can rely on it.
And you don't enjoy the privilege of selling it for nothing.
The Retailer has his profit.

NEW SOAPS

MANUFACTURED BY

F. C. CALVERT & CO.,

MANCHESTER.

Good Value, Easily Sold, and Price not named on Tablets or Boxes.

Coal Tar Soap, Pine Soap, Carbolic Soap, Carbolic and Sulphur Soap.

Paper-wrapped Tablets, averaging about 4 to the pound.

1 dozen boxes, each 1s. 8d. } Subject to Trade Discount.
3 " " 4s. 6d. }

*** *Order above as Calvert's HYGIENIC Brand.*

FULLER'S EARTH SOAP, PUMICE SOAP, and PETROFENIC SOAP (for the Hair).

paper-wrapped Tablets, averaging about 2½ oz. each. 1 dozen boxes, each 1s. 3d., less Trade Discount.

*** *Order above as CALVERT'S.*

WHOLESALE & EXPORT orders for

MASON'S

PERFUMED SOLUTION OF

CARBOLIC ACID

Should be addressed to

C. E. MASON & Co., 2 Beech St., LONDON, E.C.

TERMS UPON APPLICATION.

MACKEY, MACKEY & CO.'S

EUCALYPTOL DISINFECTANTS

MEDALS—*Cape Town*, 1877; *Brighton*, 1881; *Cork*, 1883; *Dublin*, 1884; *International Inventions Exhibition*, 1885.
GOLD MEDAL—*International Health Exhibition*, 1884.

EUCALYPTOL ESSENCE, for internal use in Bronchitis, Influenza, &c. In bottles 2/- each. Spray 2/- extra.

EUCALYPTOL DISINFECTING FLUID, for Drains, Sick-rooms, &c. In 1/- and 2/- bottles. In 1-gallon cans, cans included, at 5/- per gallon.

EUCALYPTOL DISINFECTING POWDER, for Sprinkling about Sick-rooms, &c. In 1/- tins. In ¼-cwt., ½-cwt., and 1-cwt. packages, packages extra, at 10/6 per cwt.

EUCALYPTOL CLEANSING FLUID, for Laundry Use. In 1/- and 2/- bottles. In 1-gallon cans, cans included, at 5/- per gallon.

EUCALYPTOL CLEANSING POWDER, for Cleaning Stairs, Floors, Benches, &c., no soap or soda being required. In 1/- tins. In ¼-cwt., ½-cwt., and 1-cwt. packages, at 18/- per cwt. Packages extra.

EUCALYPTOL & PINE WOOD OZONISER. In 1/- tins.

KRESYLINE DISINFECTING FLUID (Soluble Creasote). In 6d., 1/-, and 2/- bottles. In 1-gal. cans, cans included, at 4/- per gal.

CARBOLIC ACID (Black), for Sewage Disinfection.

CARBOLIC ACID No. 5 (Light Brown). In 1-gallon cans, cans included. 4/- per gallon.

CARBOLIC POWDER 15%. In 1/- tins. In ¼-cwt., ½-cwt., and 1-cwt. packages, packages extra, at 6 6 per cwt.

SPECIAL QUOTATIONS FOR QUANTITY.

MACKEY, MACKEY & CO.

1 & 2 BOUVERIE STREET, FLEET ST., E.C.



CARBO-EUCALYPTINE



VOLATILE AIR-PURIFYING

SANITARY TABLETS.

Supplied to the Houses of Parliament, Hospitals, Hotels, Railway Companies, Board Schools, Shipping, and 50,000 Dwellings, &c.

From S. J. COURTNEY PAIN, *Medical Officer in Charge*, GAILKORA, BENGAL, *June* 19, 1892:—"I have found the **Carbo-Eucalyptine Sanitary Tablets** of great value in my Cholera Camp. Please send at once a six months' supply for our Hospital here," &c., &c., innumerable.

First Sample Dozen 3/6 (Parcel Post), Showcard, &c.,
For Cash with Order, or £2 a Gross, from all Chemists' Sundrymen, or the

EUREKA MANUFACTURING COMPANY, CLAPTON PARK, **LONDON.**

Especially put up for India and Tropics, and minus price.
AVERAGE RETAILER'S SALES ½-GROSS WEEKLY.

DUSSEK BROS. & CO.'S

SOLUBLE SANITARY FLUID (MILKY), CARBOLIC ACIDS & POWDERS

Of all strengths, in various packages for the Trade and for Export.

Also Sheep Dip, Tar and Rosin Products, Dubbin, Greases, Creosote, Brunswick Black, &c.

DUSSEK'S WHARF, VERNEY ROAD, S.E.

TELEPHONE No. 4833. TELEGRAMS—"DUSSEK LONDON."

Sole Address: **A. J. HEALD, M.P.S., BURNHAM, BUCKS, ENGLAND.**



CHEMISTS THROUGHOUT THE WORLD WHO STOCK

HEALD'S DOG MEDICINES

Find that wherever introduced they command a constant and increasing sale. The Retail Chemist runs no risk in stocking these remedies. They are sent carriage paid, and, on being returned at any time, the purchase-money will be refunded immediately.



	Sample Package	Kennel Package
HEALD'S HEPATIC APERIENT BALLS ... For Yellows, Liver Derangements, and as a Cooling Aperient.	1/-	7/6
HEALD'S TONIC CONDITION BALLS ... For Show Condition, Weakness, and where extra exertion is required.	1/-	7/6
HEALD'S COUGH BALLS ... For every description of Coughs, Asthma, or Bronchitis.	1/-	7/6
HEALD'S DISTEMPER POWDERS ... A certain Cure for Distemper or Feverish Colds.	1/-	7/6
HEALD'S WORM POWDERS ... An Expellent of all Internal Parasites and their Ova.	1/-	7/6
HEALD'S MANGE SPECIFIC (non-poisonous) ... Rapidly Cures all Skin Diseases, and Restores the Hair.	1/-	7/6
HEALD'S EAR CANKER LOTION ... A never-failing and painless Cure for Ear Canker.	1/-	7/6
HEALD'S TICK LOTION (non-poisonous) ... Instantly destroys Ticks, Lice, or Fleas. A specific for Eczema and Skin Irritation.	1/-	7/6
HEALD'S MEDICINE CHEST ... These contain all the above Remedies.	7/6	15/-
HEALD'S DOG SOAP ...	6d. per tablet.	

Any number of "Amicus Canis," a pocket treatise on the diseases of dogs, will be forwarded free for distribution. Over two thousand unsolicited testimonials as to the efficacy of these medicines have been received, and the proprietor knows of no single instance in which they, having been once used, have been discarded for others.

Terms:—25 per cent. off retail price to quarterly account; 10 per cent. additional for cash strictly 14 days from date of invoice. All goods carriage paid.

ALL WHOLESALE HOUSES STOCK THESE REMEDIES.



Sole Address: **A. J. HEALD, M.P.S., BURNHAM, BUCKS, ENGLAND.**

PETROLEUM JELLY

WHITE, RED AND YELLOW · BEST AND PUREST · TRADE MARK · CONFORMS TO ALL · REQUIREMENTS OF B.P.

CHEAPER AND EQUAL TO VASELINE, AND PRONOUNCED BY THE MEDICAL PROFESSION TO BE UNSURPASSED.
Tins of all sizes, from 1 to 10 lbs.; Iron or Wood Kegs, ¼, ½, and 1 cwt.; Barrels about 3 cwt., &c. Samples and prices on application, stating packages and quantities required, to the Manufacturers—

SNOWDON, SONS & CO., MILLWALL, LONDON, E.

WILLIAM FOX & SONS,

WHOLESALE DRUGGISTS, &c.,

109 & 111 Bethnal Green Road, London, N.E.

Cabinet Varnishes, Polishes, Glaze, Finishing Spirit, Glues, Wood Stains, Gums, Resins, Shellacs.

PRICES FORWARDED ON APPLICATION. TELEPHONE NO. 1499.

THE WANT OF THE DAY!

NO MORE SOFT LINEN WHEN STARCHED.

Used in the Royal Laundries.

Should be used in Every House.

The Greatest Boon ever offered to the Laundress for imparting an IVORY-FINISH to Starched Linen, Laces, &c. It does not stick to spider-web-like materials.

CRITCHLEY'S STARCH GLOSS

REGISTERED No. 40,376.

Once Tried, Always Wanted.

Makes Old Linen like New.

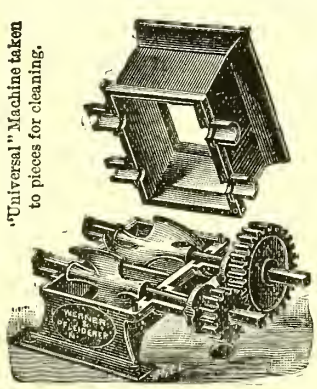
From the Chief Laundress to H.R.H. the Prince of Wales:—West Newton, near Lynn, Norfolk, Aug. 29, 1879. SIR,—Having tried your "STARCH GLOSS," I certainly think it a great improvement—far superior to any I have tried. Yours truly,
To Mr. CRITCHLEY. E. ELDER.

Sold by Chemists and Druggists, Grocers, Oilmen, &c., in Packets at 1d., 3d., 6d., and 1s. each.

PREPARED ONLY BY

T. CRITCHLEY, CHEMIST AND WHOLESALE DRUGGIST, **BLACKBURN.**

LONDON DEPOT—2 BEECH STREET, E.C.



Size 3, Type I., for 1-lb. Mass.

THE "UNIVERSAL"

Kneading & Mixing Machine,

Used by all the largest Pill Makers.

SUITABLE ALSO FOR

OINTMENTS, POWDERS, AND MASSES of any Consistency.

PILL MASSING MACHINES.

PILL PIPERS,
CUTTERS,
ROUNDERS, COATERS,
"SPIRAL BRUSH"
POWDER-SIFTERS
(WITH INTERCHANGEABLE SIEVES),

AND EVERY ACCESSORY FOR THE PILL ROOM.

WERNER, PFLEIDERER & PERKINS (LIMITED),
43 Regent Square, GRAY'S INN ROAD, W.C.
SHOWROOMS:—117 QUEEN VICTORIA STREET, E.C.

Contractors to the War Offices of all the Great Powers & other Governments.

JUST A WORD WITH **YOU**

13 Clerkenwell Road, E.C.

Dear Sir,

We beg to ask your notice of the following

(1) Our business is that of agents, not manufacturers

(2) Owing to our success in introducing RISING SUN Stove Polish, the first article we offered to the public, many other manufacturers have since asked us to place their products on the market.

(3) From the first we have determined to handle nothing that can in any way injure the position we have established, or shake the confidence of the trade or public in our specialities.

(4) For this reason we always, before introducing any new article, first have it carefully tested against the best of its competitors, and only take it up after becoming convinced of its superiority over all others of its class.

(5) Not being confined to the products of any one factory we are thus in a position to select the best, and only the best articles of their kind, and we have every confidence that a trial of any or all of those named in the following pages will convince you that introducing and pushing them amongst your customers will be satisfactory to them and you alike, especially as a good profit is secured to you by our anti-cutting system (SEE PAGES 3 & 4)

Awaiting your kind favors which shall have our prompt attention

Yours obediently

C. Chancellor & Co.

Above is page 1 of our

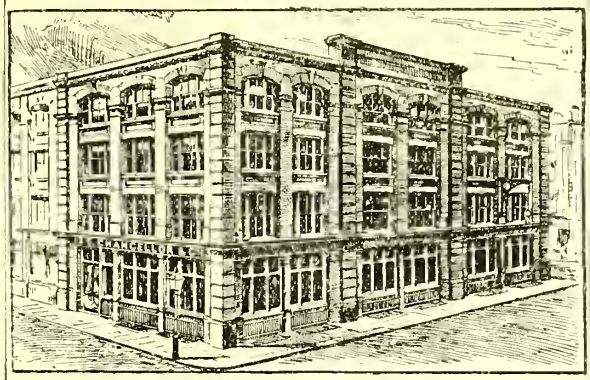
NEW PRICE LIST.

Post Free on application.

Bound to Move

TO

OUR NEW PREMISES



13, CLERKENWELL ROAD, E.C.

BECAUSE **THE PUBLIC** like our Goods best. **THE TRADE** find them best worth pushing knowing that the PROFIT, like the QUALITY, is not only GOOD but also PERMANENT. **SO THAT** our trade has gone up by **LEAPS** and **BOUNDS.** EVERY DAY bringing us FRESH CUSTOMERS and INCREASING OLD ACCOUNTS.

HAVE YOU tried them? **IF NOT, DO!**

RISING SUN Stove Polish

RISIN' SUN Metal Polish

MACK'S Double Starch

Chancellor's PLATE POWDER

Splendid Profit
For the Trade.

Splendid Value
For the Public.

Complete Satisfaction
For you and your customers alike.

NO CUTTING ALLOWED.

IF YOU HAVEN'T TRIED THEM,

DO!!!

IF YOU HAVE, **PUSH THEM.**

DON'T LET YOUR LETTERS GO WRONG!! PLEASE NOTE NEW ADDRESS!

PLEASE CREASE HERE BEFORE TEARING OUT.

Date.....

To C. CHANCELLOR & CO., 13 Clerkenwell Road, London. E.C.—

Please forward, carriage paid, the following goods, subject to your Conditions of Sale, and to full Discounts for the quantity named, as per your published Quotations :—

....gr. "Rising Sun" Stove Polish @ 4/6, in cases containing 4 gr. ½d. packets.
.... „ „ „ „ „ „ 8/6, „ „ 2 gr. 1d. „
.... „ „ „ „ „ „ 16/0, „ „ 1 gr. 2d. „
....„ "Risin' Sun" Metal Polisb „ 23/0, „ „ ½ gr. 3d. bottles.
.... „ „ „ „ „ „ 48/0, „ „ ¼ gr 6d. „
.... „ „ „ „ „ „ 96/0, „ „ ¼ gr. 1s. „
.... „ Chancellor's Plate Powder „ 28/0, „ „ ¼ gr. 3d. boxes.
.... „ Mack's Double Stareh „ 54/0, „ „ ½ gr. 6d. „

....gr. Mack's Double Starch @ 54/0, in cases containing ¼ gr. 6d. boxes.
.... „ „ „ „ „ „ 52/9, „ „ ½ gr. 6d. „
.... „ „ „ „ „ „ 28/3, „ „ ¼ gr. 3d. „
.... „ „ „ „ „ „ 28/3, „ „ ½ gr. 3d. „
.... „ „ „ „ „ „ 27/8, „ „ 1 gr. 3d. „
.... „ „ „ „ „ „ 7/6, „ „ 1 gr. 1d. packets.
.... Happy Laundress (Clockwork Figure for Advertising, returnable at two months) 3,6*

In selling your articles we undertake not to charge less than the agreed minimum prices named in your List. †

NOTE.—*Trade Reference or Cash required with first order. If Cash at the rate of above Gross quotations is sent, the full amount of Discount will be returned with receipted Invoice.*

Signed .....

Full Address.....

* **A HANDSOME CLOCKWORK FIGURE,** a working LAUNDRESS, will be supplied **on loan** for two months to any Retailer who will undertake to **exhibit it in the front of his shop window or on his counter.** A nominal charge of 3/6 (much under cost) will be made, which will be **credited in full** on return of the figure **in good condition.** Those who have several branches may have **one for each shop** on these terms. Each Retailer who asks for the loan of one through a Wholesale House will be supplied **direct** on receipt of his name and address from the latter. This is to save the Wholesale Houses any trouble in delivering and receiving back.

† Price List and Conditions of Sale sent post free on application.

DON'T PURCHASE

ANY

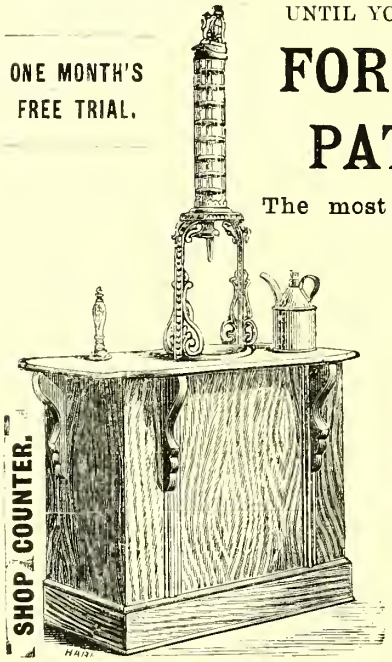
Measuring Apparatus

UNTIL YOU HAVE SEEN

ONE MONTH'S FREE TRIAL.

FORREST'S PATENT,

The most Accurate and Perfect one ever invented.



Highly recommended by the Board of Trade and Inspectors of Weights & Measures

Write for Testimonials and all Particulars from the Patentee,

H. P. Forrest,

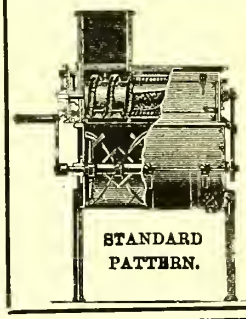
MARKET PLACE,

WORKSOP.

HUNDREDS OF

GARDNER'S PATENT

"RAPID" SIFTERS & MIXERS



Now working in Almost Every Trade where DRY POWDERS are Sifted and Mixed and Lumps Reduced.

All being done at one operation.

Prices from 50s. to £90.

WM. GARDNER,

Engineering Works,

GLOUCESTER.

See our Inset between pages 80 and 81 in this Issue.

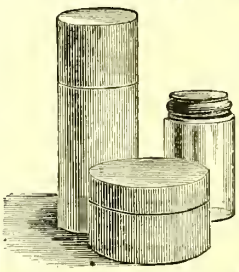
Stock, upwards of **50,000,000**

TURNED WOOD BOXES,

BOTTLE CAPS,

AND

ALL KINDS OF TURNERY.



MAXIME & CO.

General Wood & Bone Turners.

WAREHOUSES & OFFICES:

150 OLD STREET,

London, E.C.

FACTORIES AND SAW MILLS, LARGEST IN THE WORLD

At Gothenburg, SWEDEN, and Boulogne-sur-Mer, FRANCE.

Any Special Articles made to order.

WILLIAM BURTON & SONS, BETHNAL GREEN, LONDON.

Hydrogen Peroxide, Indigo Extract, Soluble Indigo Powder, Orchil, Cudbear, Logwood Extract, Fustic Extract, Aniline Dyes, Fine Lakes for Lithographic Inks, Vermilionettes, Drysalteries.

Sole Agents in United Kingdom and Colonies, excepting Canada, for

The New Bleach, SODIUM PEROXIDE Aluminium Co., (Ltd.).

GENUINE EMERY, EMERY CLOTH, AND BLACK LEAD.

JOHN OAKEY & SONS,

MANUFACTURERS OF

Glass and Flint Paper, Emery and Glass Cloth; Emery, Black Lead, Emery Wheels, Pumice, Putty Powder, Crocus, Urn Powder, Tripoli, Rouge, Plate Powder, Steel Polish, Furniture Polish, Knife Boards, Brunswick and Berlin Black, &c.

OAKEY'S WELLINGTON KNIFE POLISH

Prepared expressly for Oakey's and other Knife Boards, Buff Leather Boards, and all the Patent Knife Cleaning Machines.
Sold in Canisters with perforated Tops to prevent waste, at 1*d.*, 2*d.*, 3*d.*, 6*d.*, 1*s.*, 2*s.* 6*d.*, and 4*s.* each.

OAKEY'S NON-MERCURIAL SILVERSMITH'S SOAP,

For Cleaning and Polishing Silver, Plate Glass, Marble, &c. Tablets, 6*d.* each.

OAKEY'S "POLYBRILLIANT" (REGISTERED).

A Magic Pomade for Cleaning Brass, Copper, Tin, Pewter, Britannia Metal, &c. Never becomes dry and hard like other Metal Paste.
Tins, 1*d.*, 2*d.*, 3*d.*, and 6*d.* each.

WELLINGTON BLOCK BLACK LEAD.

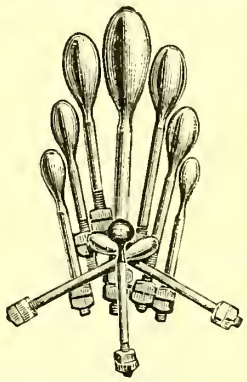
In 1*d.*, 2*d.*, and 4*d.* Blocks, and 1*s.* Boxes.

WELLINGTON EMERY & BLACK LEAD MILLS, Westminster Bridge Road, London, S.E.

Highest Award and Prize Medal, Philadelphia Exhibition, 1876; and Boston, 1883. Gold Medal, Crystal Palace, 1884.

CAPSULE MOULDS

SPECIAL SHAPES AND SIZES MADE TO ORDER.



STANDARD SIZES KEPT IN STOCK.

PARTICULARS AND PRICES ON APPLICATION.

Sole Licensees for Manufacture and Sale of McFerran's Improved Automatic Machinery for Making

COMPRESSED TABLETS

Of various shapes and sizes, from ¼ gr. upwards. Nos. 4 and 5 Machines have been specially designed for Retail Druggists.
POWDERS NEED NOT BE GRANULATED.

REDUCED PRICE LIST.

Special Machines Manufactured to Contract for Inventors and Merchants.

JOHN HOLROYD & CO., Limited,
HULME, MANCHESTER.

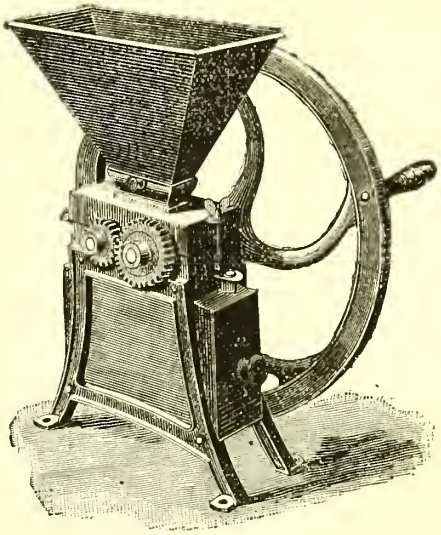
BENNETT, SONS & SHEARS,

Engineers, Coppersmiths, and Millwrights,

SPECIALISTS IN CHEMICAL PLANT.

Laboratories Designed and Fitted Completely.

CHEAPEST AND BEST.



Apply for Price List.

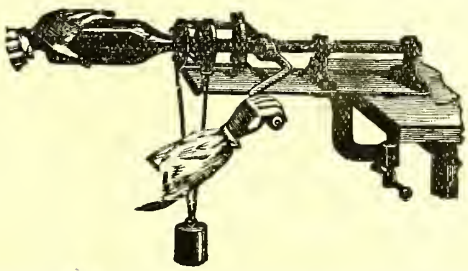
NEW PATTERN. [1]

Universal Drug Mills, with helically grooved and fluted Rollers, for grinding Drugs, Oleaginous Seeds, Roots, Herbs, &c., &c.

167 Kingsland Road, London, N.E.
TELEGRAMS "COPPERSMITHS LONDON."

NEW CAPSULING MACHINE

The only Machine which leaves no crease or pleat on the Capsule.



Can be fixed to any Counter. A single pull of the lever is sufficient to fix the Capsule.

Patentee—C. MELIN, 37 Crutched Friars, LONDON, E.C.



NEW PATENT

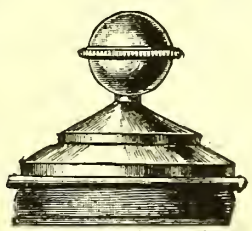
AIR-TIGHT CHEMIST JAR.

A slight turn of the knob presses the indiarubber Band against the glass, and renders the vessel absolutely air-tight. The Stopper is made of pure Nickel, of handsome shape.

INVALUABLE FOR SHOW BOTTLES, CHEMISTS, CONFECTIONERS, &c.

Samples and Prices of all Chemists' Sundriesmen.

C. MELIN, [2]
37 CRUTCHED FRIARS, MARK LANE, E.C.



Section of the Nickel Stopper when closed.

VARNISH WEAR.

THE PROOF OF THE ~~PUDDING~~ IS IN THE ~~EATING.~~

TRADE ELASTICA MARK

FOR

FRONT DOORS
SHOP FRONTS AND COUNTERS

HOTEL BARS
YACHTS AND BOATS
VANS AND CARTS

ELASTICA FOR THE CASTLE.
ELASTICA FOR THE COTTAGE.

ORDER FROM YOUR WHOLESALE DEALERS, OR FROM

PINCHIN, JOHNSON & CO., 23 Billiter St., **LONDON, E.C.**

Telephone 2241. Telegrams—"PINCHIN LONDON."

TO CHEMISTS AND DRUGGISTS.

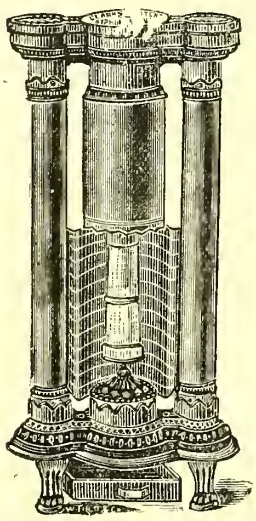
AGENTS WANTED FOR THE SALE OF

"THE SYPHON" (REGISTERED TITLE) **HYGIENIC CONDENSING GAS HEATING-STOVES**

(CLARK'S PATENT).

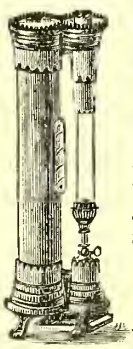
A Necessary for all Invalids. A Comfort to Everybody.

NO FLUE REQUIRED. FREE FROM SMELL OR SMOKE.



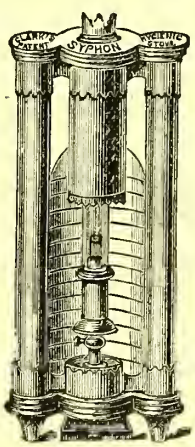
All injurious vapours are reduced to harmless liquid inside the Stove, and passed out at foot into a tray provided for that purpose.

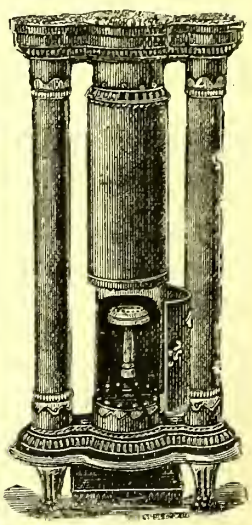
For use in Hospitals, Sick Chambers, Bedrooms, Halls, Conservatories, Schools, Shops, &c.



They give a Pure, Equable, and Agreeable Heat, which can be graduated and sustained at the will of the user.

Specially suitable for patients suffering from Bronchial affections, as a moist atmosphere is obtainable when required.





For Terms, Particulars, and Prices, apply to

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Telegraphic Address—"SYPHON STOVES LONDON." Wholesale Agents—Messrs. MAW, SON & THOMPSON, Aldersgate Street, London, E.C.

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Sydney, 1879.



Melbourne, 1880.

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WHOLESALE BRUSH MANUFACTURERS.

(ESTABLISHED 1800.)

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BUY your BRUSHES from bona-fide Manufacturers, and save intermediate profits.

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HAIR BRUSHES. A few out of our 300 patterns Excellent quality & value.



D 54. Skittle, Satin. Screwed Back. 13 rows, 17/- per doz.



W 112 Oblong, Satin. Screwed Back. 13 rows. 19/- per doz.



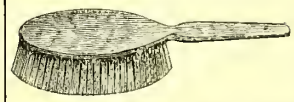
R 27 Oblong, Satin. Pinned Back. 11 rows, 20/- per doz.



W. 1. Long Oval, Rosewood, Satin inlaid, 11 rows, 21/- per doz. W. 2. Do., 13 rows, 24/- per doz.



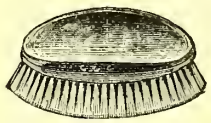
S 18. Long Oval. Satin. Solid Back. 15 rows, 30/- per doz.



Y 20. Long Oval, Satin. Solid Back. 15 rows, 36/- per doz.



S 59. Oblong, Satin. Solid Back. 13 rows, 36/- per doz.



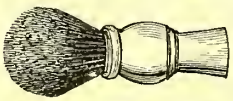
Military, Satin, 10/6 to 36/- per doz.

Do., Concave Backs, 28/- to 32/- per doz.

SHAVING BRUSHES.



Hog Hair, Bone, &c., 2/- to 11/6 doz.



Badger Hair, Bone, &c., 8/- to 36/- doz.

In Cases, 18/- to 34/- per doz.

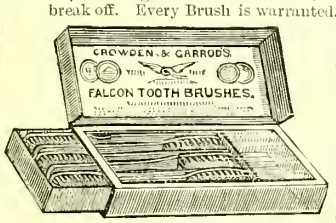


C. & G.'s Patent Indestructible Nickel-plated Bands.

No loose hairs to come out.
Hog Hair, nicely finished, 8/-, 10/-, 12/- per doz.; Badger Hair, ditto, 20/-, 26/- per doz.

CROWDEN & GARROD'S "FALCON" TOOTH BRUSHES

Have been justly celebrated for the last 40 years. They are made of selected Bristles, are WIRE DRAWN, CEMENTED, as well as being WAX BACKED, ensuring that no hairs come out or break off. Every Brush is warranted.



In handsome Show Boxes, with glass top and pull-out Drawer, containing 1 doz.

In every variety of pattern.
A. "Best Faleon," assorted, 6/- per doz.
B. "Seeonds Faleon," " 3/6 "
(These are thrown out of the best.)

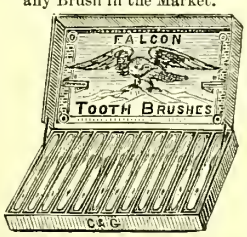
The Best and most reliable 6d. Brush in the Market.

C. Thirds, stamped "Unicorn," 3/- per doz.
D. Fourths, " "London," 2/4 "

Customers' names stamped Free of Charge on order of 1 gross.

"Extra Faleon" Tooth Brushes, made of Extra Extra quality Bristles, extra finish, superior to any Brush in the Market.

In handsome Show Boxes of 1 doz.

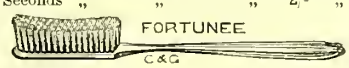


Each Brush is put up in a separate box, as illustrated.

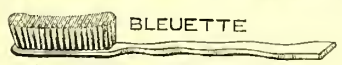
Waxed in Red, Blue, or Green. Every Brush guaranteed. 6/6 per doz.
The "Faleon Gem," Waxed across. 6/6 per doz.

CHILDREN'S TOOTH BRUSHES.

"Best Faleon," Wax Backed, assorted, 3/6 per doz.
Seeonds " " " 2/- "

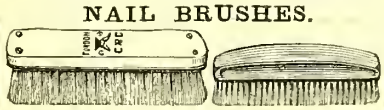






Quite New Patterns. Highly Finished.
No. 30, 4/-; No. 29, 3/9; No. 28, 3/6 per doz.

NAIL BRUSHES.



Bone, per doz. 4/4, 6/6, 8/-, 9/6, 11/6, 14/-, to 30/-.

Wood, per doz. 10d., 1/4, 1/8, 2/6, 3/4, to 12/-.



THE "HANDY." Satin Wood, Solid Backs. K1, Yellow Hair, 12/- per doz.

100 other patterns.

SPONGES, a Spécialité.

CROWDEN & GARROD'S "FALCON" PAINTING BRUSHES

Are the best made. For prices, see new Illustrated Catalogue.

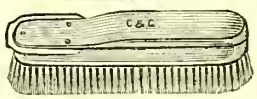
CLOTH BRUSHES.



In Satin and Rosewood, splendid value, from 4/6 to 33/- per doz.



Satinwood, Screwed Backs, High Cut, all Stiff White Hair, very superior.
In 3 sizes: H3, 32/-; H4, 36/-; H5, 46/- per doz.

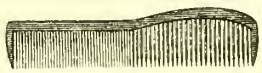


Musgrave's Patent Combination Splash. Fitted with Nickel Plate to remove the splashes.
A9, Black, 18/-; Handled, 22/- to 40/- per doz.



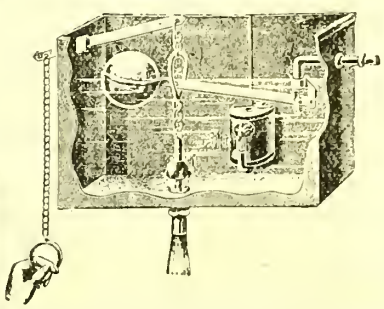
Handled, from 12/- to 96/- per doz.; do., with splash. 30/- to 100/- per doz.

DRESSING COMBS.



Horn, Stained, Buffalo, Rhinoceros, from 1/6 to 16/- per doz. Xylouite, from 3/- to 16/- per doz.

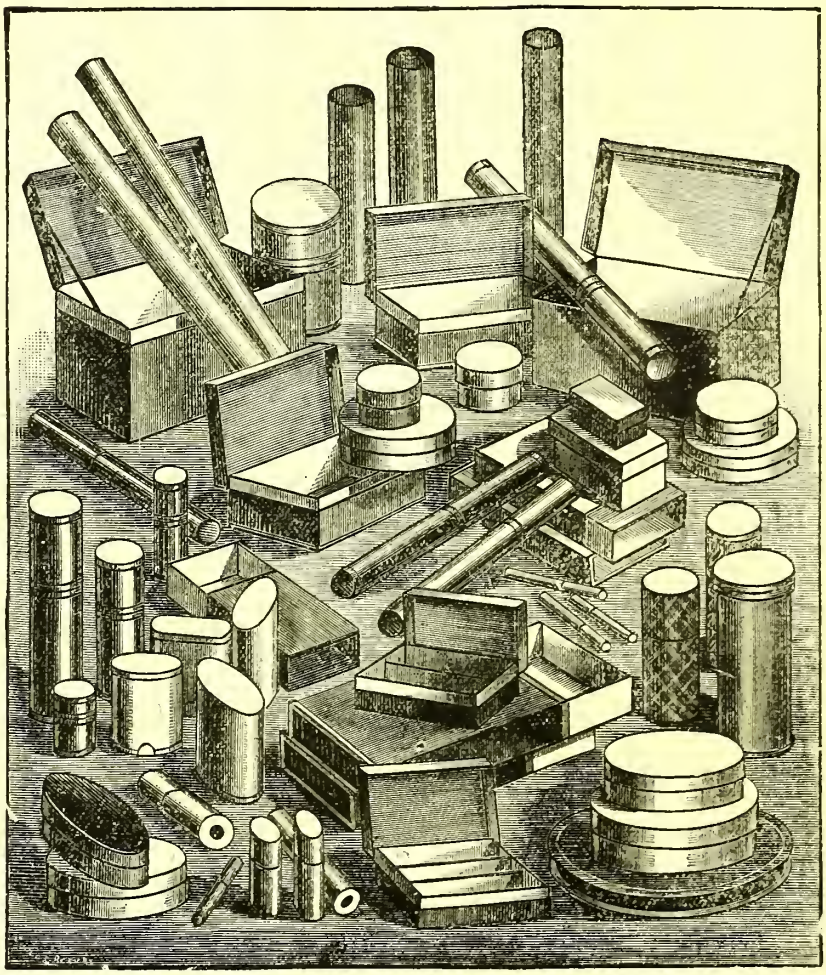
DOVE'S PATENT AUTOMATIC DISINFECTOR.



Contains sufficient Disinfecting Crystals to make 15,000 gallons of Strong Disinfecting Fluid.
Requires no fixing, and is simply hung in the Cistern.
Will last for months, ensuring automatically a regular and efficient supply of Disinfectant.
Strongly made in Copper.
Retail 2/6; 22/6 per doz. Re-charges 6/9 per doz.

BOXES FOR

Baking Powder.
Brushes.
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Camphor.
Capsules.
Cotton Wool.
Disinfectants.
Confectionery
Essential Oils.
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Fancy Soaps.
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Horse Powders
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For Export.

ESTABLISHED OVER HALF A CENTURY.

Send your Sample for estimates and compare prices.

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Workmanship and Punctuality guaranteed.

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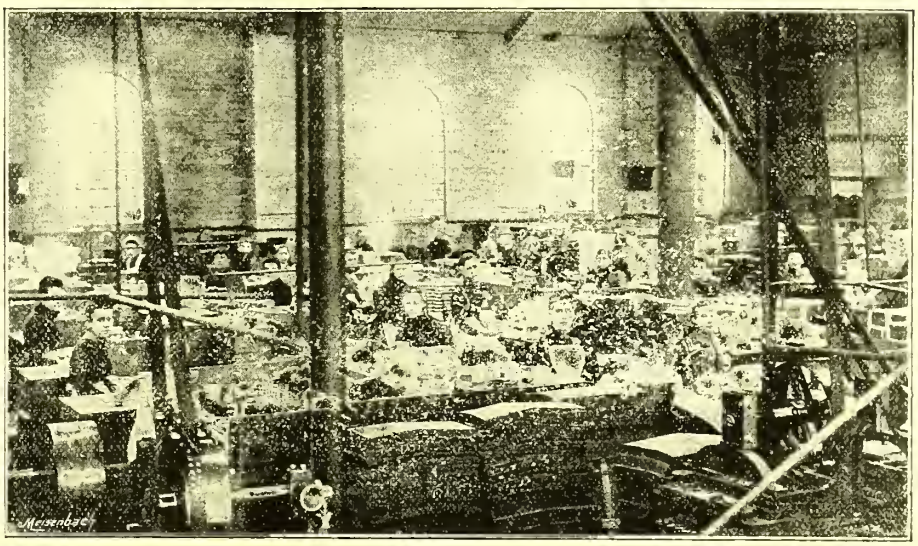
PRINTERS AND MANUFACTURERS OF

ROUND, SQUARE. AND FOLDING CARDBOARD

BOXES

ESTABLISHED 18 39 ESTABLISHED

For the Drug, Drysaltery, Confectionery, and other Trades.



A PEEP INTO THE SQUARE BOX DEPARTMENT.

This shows a portion of one of our Workrooms, 64 ft. × 65 ft., we venture to think one of the finest rooms in the kingdom used for this purpose.

OUR SPECIALITIES ARE

ROUND CARDBOARD BOXES for Baking Powder. Bottles, Camphor Balls, Fuller's Earth, Insect Powder, Magnesia, Marking Ink, Metal Paste, Ointment, Pills, Plaster, Starch Gloss, Syringes, Tapers, Tooth Powder, Violet Powder, &c., &c.

SQUARE BOXES, ORDINARY MAKE, for Baking Powder, Bottles, Cutlery, Dispensing Powder, Fuller's Earth Gazogene Powders, Jewellery, Lozenges, Parcel Post, Pills, Seidlitz Powders, Soap, Violet Powder, &c., &c.

SQUARE BOXES WITH METAL EDGES, for Hardware, Cutlery, &c.

FOLDING BOXES for Bottles, &c.

WRITE FOR SAMPLES AND ESTIMATES OF ANY SPECIAL BOX YOU REQUIRE.

Boxes made up with Customers' own Labels at Nominal Cost, or Printed to Approved Designs.

SMALL PARCELS DELIVERED FREE TO ANY LONDON CARRIER.

ROBINSON & SONS, Wheat Bridge Mills and Holme Brook Works, **CHESTERFIELD,**

And 55 Fann Street, Aldersgate Street, LONDON, E.C.

COMPARE OUR PRICES.

TO THE WHOLESALE TRADE, IMPORTERS,

BREFFIT'S BOTTLES

DISPENSING BOTTLES, Flat or Oval, Pale Blue Tint—

Size	1	1½	2	3	4	6	8	10	12	16	20	24	32	40 oz.
Price	5/6	6/	6/	7/	7/	9/	9/	14/	15/	16/	21/	26/	30/	36/ per Gross.

CHELTENHAM FLATS, Citrates or Salines, Pale Glass, for Corks—

Size	...	...	..	...	...	...	...	...	1	2	3	4	6	8	10	12	16 oz.
Price	...	...	...	...	...	...	...	...	5/6	6/6	7/	7/6	9/	10/	14/6	17/	18/ per Gross.

PERFUMERY (Round) **CANNON ESSENCE BOTTLES,** White Glass—

	Size	½ oz.	6 dram	1 oz.	1½ oz.	2 oz.	3 oz.	4 oz.
For Corking	Price	6/6	7/6	8/	9/	10/	11/6	13/ per Gross.
Ground-glass Stoppered	,,	15/6	16/6	17/	18/	19/	22/	23/ ,,

COUGH MIXTURE FLATS, Panelled (Ess. Linseed Bottles), Pale Blue Tint—

Size	...	...	...	...	...	...	1¼	2	2½	5 oz.
Price	...	...	...	...	...	...	6/	6/6	7/	9/6 per Gross.

CORN PAINT BOTTLES, each in Slide Box (Round Shouldered, Dark Green Vials, fitted Box-top Corks and Brushes)—

Size	...	...	...	...	...	...	1 dram	2 dram	½ oz.	1 oz.
Price	...	...	...	...	...	...	13/	14/	14/6	15/ per Gross.

If fitted Glass Rods instead of Brushes, same price as above.

FLATS, White Flint Glass, Short Neck, for Corks—

Size	...	...	...	½	1	1½	2	3	4	6	8	10	12	16	20 oz.
Price	...	...	...	5/	5/6	6/	7/	8/	9/	10/	10/	17/	18/6	21/	25/ per Gross.

LIMES, or **FRENCH VIALS,** Round Shouldered, White Glass—

Size	1 dram	2 dram	½ oz.	6 dram	1 oz.	1½ oz.	2 oz.	3 oz.	4 oz.	5 oz.	6 oz.	8 oz.	10 oz.	12 oz.	16 oz.	20 oz.
Price	3/3	3 3	3/6	3/6	3/9	4/6	5/3	6/3	7/	8/	8/	9/3	13/	13/6	20/	23/ per Gross.

LUBINS, or **OLDHAM SQUARES,** Thick White Flint Glass, for Perfumery—

	Size	½ oz.	6 dram	1 oz.	1½ oz.	2 oz.	3 oz.	4 oz.
For Corking	Price	6/	6/6	7/	7/6	9/	10/	11/6 per Gross.
Ground-glass Stoppered..	,,	16/	16/	17/	17/6	18/6	22/	25/ ,,

MAGNESIAS, White Flint Glass, Black Metal Capped—

Size	...	...	...	...	1	2	3	4	6	8 oz.
Price	...	...	...	...	8/6	10/	13/	15/6	15/	17/6 per Gross.

MALT EXTRACT BOTTLES, in Amber or Vegetable Green Glass, Oval Shape, Flattened with Wide Mouth—

Fluid Capacity...	...	...	...	5	6½	8	10	12	16	20 oz.
Price	...	...	...	...	10/	11/6	13/6	15/6	17/6	19/	21/ per Gross.

MEASURES, White Flint Glass, Puntied Bottoms, Conical Shape, accurately graduated—

Size	½	1	2	3	4	6	8	10	12	16	20	24	32	40 oz.
Price	3/6	4/	5/	5/6	7/	7/6	8/	9/	10/	11/	12/6	14/	15/	18/ per Dozen.

If Government Stamped, 3/ per dozen extra.

POMADES, White Flint Glass, Wide Mouth—

Size	...	...	...	½	1	1½	2	3	4	6	8	10	12	16	20 oz.
Price	...	...	...	5/	5/6	6/6	6/6	8/6	10/	11/6	15/	18/	21/	28/	36/ per Gross.

ALL BUYERS OF BOTTLES AND GLASSWARE SHOULD
See Prices for few of our Leading Lines in "CHEMIST AND DRUGGIST"

Offices and Show Rooms : 83 UPPER
CORRESPONDENCE

PLEASE COMPARE OUR PRICES.

AND ALL BOTTLE AND GLASSWARE BUYERS.

AND GLASSWARE.

SEND FOR OUR ILLUSTRATED PRICE LIST.

POMADES, white glass, tall series, with white metal screw caps—

	Size No.	3 dr. 2896	½ 681	1 2893	1 88	1½ 683	2 91	3 2935	4 2936	8 oz. 2951
With white metal screw caps		9/	9/6	10/6	11/	13/	13/	15/	16/6	19/ per gross.

ROUNDS, hand made (SHOP ROUNDS), white flint glass—

	Size	2 dr.	½	1	1½	2	3	4	6	8	10	12	16 oz.
Plain for corks, narrow or wide mouth		7d.	7d.	9d.	9d.	11d.	1/3	1/4	1/9	2/	2/3	2/6	2/9 per dozen.
Narrow mouth ground-glass stoppered		1/3	1/5	1/6	1/9	1/9	2/	2/3	2/8	3/6	3/9	4/	4/6 ,,
Wide mouth ground-glass stoppered		1/6	1/9	1/10	2/	2/	2/3	2/8	3/3	4/	4/3	4/6	5/3 ,,

	Size	20	24	30	32	40	60	80 oz.
Plain for corks, narrow or wide mouth		3/3	3/6	4/	4/	5/	6/3	8/6 per dozen
Narrow mouth ground-glass stoppered		5/3	5/6	5/9	5/9	6/9	8/	10/6 ,,
Wide mouth ground-glass stoppered		5/9	6/	6/3	6/3	7/3	9/	11/6 ,,

GOLD LABELLING ... ... 3/ per doz. ENGRAVED LABELS ... ... 4/6 per doz.

SHOW CARBOYS, pear shape, stoppered, white flint glass—

	Height to top of Stoppers. about 16 inches	Diameter at Globe. about 8 inches	Plain Stoppers.	Cut Stoppers.
1 gallon			4/6	6/ each.
2 ,,	20 ,,	10 ,,	7/	9/ ,,
3 ,,	23 ,,	12 ,,	8/6	10/6 ,,
4 ,,	26 ,,	13½ ,,	13/	15/ ,,
6 ,,	30 ,,	15 ,,	20/	22/6 ,,
8 ,,	34 ,,	17 ,,	27/	31/ ,,
10 ,,	35 ,,	18 ,,	38/	42/ ,,
12 ,,	40 ,,	19 ,,	52/	56/ ,,

SHOW CARBOYS, swan neck, stoppered, cut stoppers, white flint glass—

2	4	6	8 gallon
32/6	45/	68/6	84/6 each.

SMELLING SALTS, white flint glass, cut and stoppered
WATCH SHAPE, square head or round head stoppers

Size	1	2	3	4
Price per dozen	1/9	2/3	2/8	4/

SMELLING SALTS, actinic green, wide mouth rounds stoppered, actinic green globe stoppers, 1½ oz. 26/, 2 oz. 30/ per gross.

Size	1 oz.	1½ oz.	2 oz.
Square shape, unstoppered, No. 172986, Registered shape	7/6	8/	9/ per gross.
Square shape, stoppered ditto ditto	24/	26/	30/ ,,

THE INTERNATIONAL FEEDING BOTTLE. Registered No. 44,506.

No.	CHEAP FEEDING BOTTLES. *All fitted 6½ inch Rubber Tubes and Glass or White Glazed Earthenware Unions.*	Without Boxes, each Bottle in Paper Bag. Per gross.	In Divisioned Wood Boxes, each one dozen. Per gross.	Each in Card Box, with Attractive Label. Without Brushes. Per gross.	Each in Card Box, with Attractive Label. With Tube and Bottle Brush. Per gross.
	WHITE RUBBERS.				
1	Green bottle, box-topped cork	26/6	28/6	34/6	38/
2	White ,, ,, ,,	28/6	31/	36/6	40/
3	Green ,, china-topped cork	26/6	28/6	34/6	38/
4	White ,, ,, ,,	28/6	31/	36/6	40/
5	Green ,, white glazed cap	31/	33/	38/6	42/
6	White ,, ,, ,, ,,	33/	35/	40/6	44/
7	Green ,, screw glass stopper	31/	33/	38/6	42/
8	White bottle do. do.	33/	35/	40/6	44/
	BLACK RUBBERS.				
9	Green bottle, box-topped cork	30/	32/	37/6	41/
10	White ,, ,, ,,	32/	34/	39/6	43/
11	Green ,, china-topped cork	30/	32/	37/6	41/
12	White ,, ,, ,,	32/	34/	39/6	43/
13	Green ,, white glazed cap	34/	36/	41/6	45/
14	White ,, ,, ,, ,,	36/	38/6	43/6	47/
15	Green ,, screw glass stopper	34/	36/	41/6	45/
16	White bottle do. do.	36/	38/6	43/6	47/

No.	SUPERIOR QUALITY FEEDING BOTTLES *Fitted larger Teats, 9-inch Rubber Tubes, and Glass or White Glazed Earthenware Unions.*	Without Boxes, each Bottle in Paper Bag. Per gross.	In Divisioned Wood Boxes, each one dozen. Per gross.	Each in Card Box, with Attractive Label. Without Brushes. Per gross.	Each in Card Box, with Attractive Label. With Tube and Bottle Brush. Per gross.
	WHITE RUBBERS.				
17	Green bottle, box-topped cork...	30/	32/	37/6	41/
18	White ,, ,, ,, ...	32/	34/	39/6	43/
19	Green ,, china-topped cork	30/	32/	37/6	41/
20	White ,, ,, ,,	32/	34/	39/6	43/
21	Green ,, white glazed cap ...	34/	36/	41/6	45/
22	White ,, ,, ,, ...	36/	38/6	43/6	47/
23	Green ,, screw glass stopper	34/	36/	41/6	45/
24	White do. do. do.	36/	38/6	43/6	47/
	BLACK RUBBERS.				
25	Green bottle, box-topped cork...	42/	44/	48/6	52/
26	White ,, ,, ,, ...	44/	46/	50/6	54/
27	Green ,, china-topped cork	43/	44/	48/6	52/
28	White ,, ,, ,, ...	44/	46/	50/6	54/
29	Green ,, white glazed cap...	46/	48/6	52/6	56/
30	White ,, ,, ,, ,, ...	48/6	50/6	54/6	58/
31	Green ,, screw glass stopper	46/	48/6	52/6	56/
32	White do. do do.	48/	50/6	54/6	58/

We beg to call special attention to our Feeding Bottles Nos. 1, 9, 15, 16, and 32, which are the kinds most generally in demand.

CODD'S BALL-STOPPERED ÆRATED WATER BOTTLES—

5 oz.	6 oz.	7 oz.	10oz.	12 oz.	14 oz.	16 oz.
18/	18/	19/	20/	20/	21/	22/ per gross.

HAND MADE WHITE GLASS CAPPED OIL AND ETHER ROUNDS, Complete—

20 oz.	30 oz	40 oz.
23/	27/6	34/6 per dozen.

HAND MADE DARK BLUE GLASS SYRUP BOTTLES AND LOOSE PLUG STOPPERS—

20 oz.	30 oz.	40 oz.
8/6	10/6	14/ per dozen.

YOUR ORDERS RESPECTFULLY SOLICITED.

SEND FOR OUR ILLUSTRATED PRICE LIST.

Diary, 1893, pages 351 to 362. ILLUSTRATIONS on Pages 363 to 365 of DIARY.

THAMES ST., LONDON, ENGLAND.

INVITED.

GLASS BOTTLES.

TO WHOLESALE AND EXPORT BUYERS.

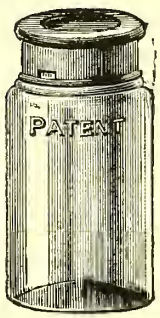
DISPENSING BOTTLES of best quality, in White Flint or all the best and newest tints. **VIALS.**—White Flint or Coloured, in all shapes and sizes. **FEEDING BOTTLES.**—Plain mouths or Screw Stoppers, in White or Green Flint. **LIME CREAMS AND KALIS** of all sizes. **ESSENCE BOTTLES** of every description, Plain or Stoppered. **MALT EXTRACT BOTTLES,** in Actinic Green, Amber, Dark Blue, or White Flint.

TO FOREIGN AND COLONIAL BUYERS.

Having recently erected spacious Warehouses we are enabled to give special attention to packing Goods for Export. **Only experienced Packers employed.**

HEARN, WRIGHT & CO. (Late E. A. Hearn & Co.), Wholesale & Export Glass Bottle Manufacturers, Eclipse Glass Works, Chatsworth Road, Clapton, **London, E.**

R. H. BARRETT'S PATENT CAPPED BOTTLE.



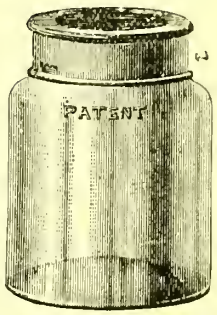
THE ONLY REALLY PERFECT BOTTLE FOR VASELINE, CMADE DRY POWDERS, ETC.

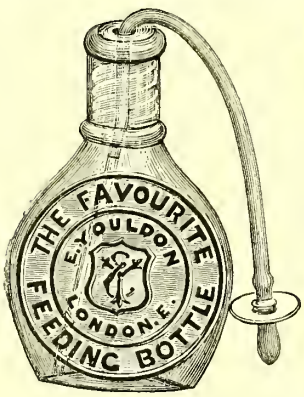
NOTICE REDUCTION IN PRICES.

PRICES (in 5-gross Lots):—Fitted with STRONG METAL CAPS, CORK-LINED, in various colours, very attractive in appearance—1 oz., 10/6; 1½ oz., 11/-; 2 oz., 11/6; 3 oz., 13/6; 4 oz., 15/6 per gross.

CHEMISTS' AND PERFUMERS' BOTTLES IN GREAT VARIETY, PLAIN OR STOPPERED.

R. H. BARRETT,
FLINT GLASS BOTTLE WORKS,
THE OVAL, CAMBRIDGE HEATH, LONDON, E.
Telegraphic Address—"FOREFRONT LONDON." [2]





GLASS BOTTLES

OF EVERY DESCRIPTION.

Revised Price List on Application.

FEEDING BOTTLES AT LOW RATES.

Write for Prices of any kind of Bottle required to

E. YOULDON,

East London Glass Bottle Warehouse,

36, 38, & 40 GREAT GARDEN STREET, WHITECHAPEL, LONDON, E.



GLASS BOTTLES

From Stock in London or direct from the works.

GOOD AND CHEAP.

THE NEW SHAPE FLATS,
With rounded edges, or the ordinary kind, plain or graduated.
3 and 4 ounce .. .. 8/- per gross.
6 and 8 ,, ... 9/- ,,

WHITE MOULDED PHIALS.

½ oz.	1 oz.	1½ oz.	2 oz.
3/6 ..	3/9 ..	4/6 ..	5/3 per gross.

PANEL BOTTLES.

2 oz.	4 oz.	6 oz.	8 oz.
7/- ..	8/- ..	9/- ..	9/- per gross.

SPECIAL NOTICE.—Six gross and upwards of assorted sizes sent Carriage Free to any part of England. Smaller quantities not carriage paid. Sample Bottle sent free on application.

ISAACS & CO., GLASS BOTTLE MANUFACTURERS,
25 Francis St., Tottenham Court Road, LONDON, W.C.
Established 50 Years. Bankers—London and Westminster Bank.

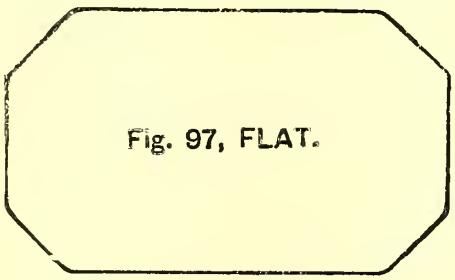
FRANCIS' CAPSICUM LEAVES

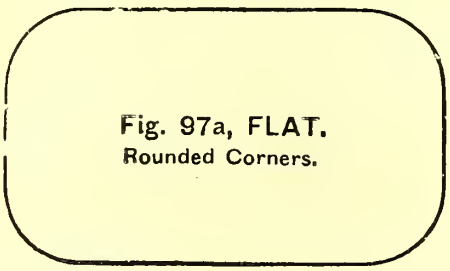
REGISTERED.—More effectual than Mustard Leaves. May be obtained through any Wholesale House. 6*d.* Tins, price 2*s.* 8*d.* per dozen.

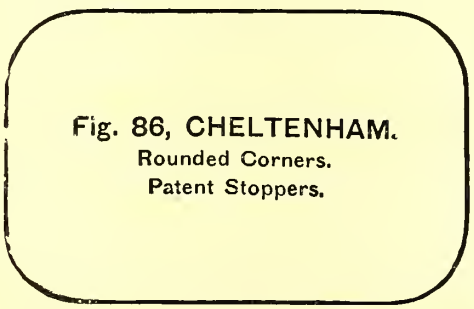
CAPSICUM is highly recommended in *The Lancet* by Sir J—— S——, M.D., and Dr. H—— J—— B—— for the treatment of Rheumatism, Neuralgia, Bronchitis, Bronchial Catarrh, Sub-acute Gout, &c.

S. MAW, SON & THOMPSON'S
GREEN FLINT
DISPENSING BOTTLES, &c.

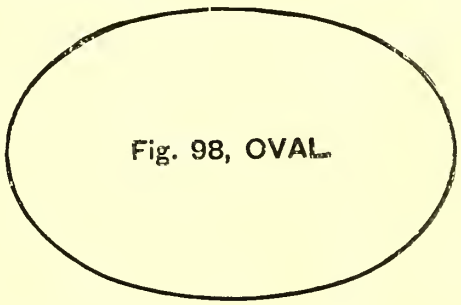
The best quality can be had either with our Trade Mark or the W brand.

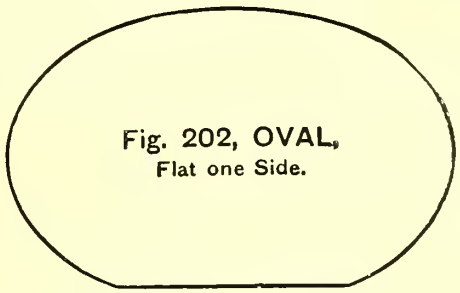

Fig. 97, FLAT.

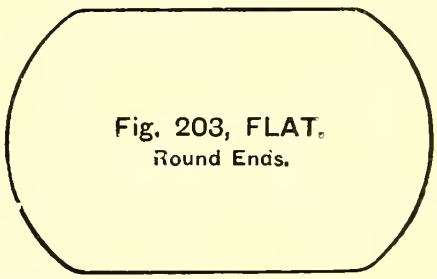

Fig. 97a, FLAT.
Rounded Corners.


Fig. 86, CHELTENHAM.
Rounded Corners.
Patent Stoppers.

For Quotation in Crates, see Price-Current, page 44, July issue.


Fig. 98, OVAL.


Fig. 202, OVAL.
Flat one Side.


Fig. 203, FLAT.
Round Ends.

REVISED PRICES.

	2	3	4	6	8	10	12	16	20	Ounce.
Fig. 97, 97a & 98	9/3	10/9	10/9	12/-	12/-	18/-	18/-	21/6	27/-	Best, per gross.
	6/8	7/6	7/6	9/6	9/6	12/6	13/9	18/9	24/-	2nd, ,,
Fig. 202 ...	...	...	10/9	12/-	12/-	...	...	...	...	Best, ,,
Fig. 203 ...	...	10/9	10/9	12/-	12/-	18/-	18/-	21/6	27/-	Best, ,,
Fig. 86 ...	...	...	16/-	20/-	20/-	...	27/-	31/-	...	Best, ,,

S. MAW, SON & THOMPSON, LONDON.

WATERPROOF FABRICS, ETC.

HOSPITAL SHEETINGS. PINK JACCONET.

V C R TRADE MARK

BANDAGE CLOTHS. WATER-PROOF LINT.

THE VICTORIA RUBBER CO., Victoria Indiarubber Mills, **EDINBURGH.**

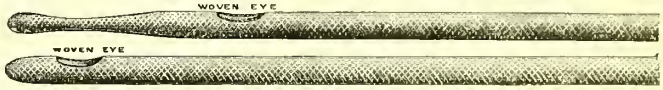
London Office and Warehouse—74 and 75 FORE STREET, E.C. Samples, &c., on application.

ESCHMANN BROS. & WALSH,

Inventors and Manufacturers of the

SOFT SILK FLEXIBLE CATHETER GUARANTEED WITH WOVEN EYES.

To be had of all Surgical Instrument Makers and Wholesale Houses.



To be had of all Surgical Instrument Makers and Wholesale Houses

SOLPORT BROS.

Telegrams— "SOLPORT, LONDON."

66, Shaftesbury Street, New North Road, LONDON, N.

Manufacturers for Wholesale and Export of

BATH & FLESH GLOVES, STRAPS, PADS, &c.

CHEST PROTECTORS, CORN and BUNION PLASTERS, &c.

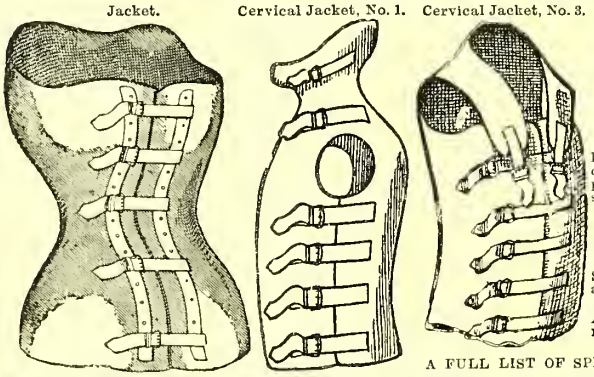
LOOFAHS & LOOFAH GOODS.

Buyers and Shippers should write for our full Illustrated Price List.

COCKING'S ADAPTABLE PORO-PLASTIC JACKETS AND SPLINTS.

Patentee and Sole Manufacturer, J. T. COCKING, PLYMOUTH.

Jacket. Cervical Jacket, No. 1. Cervical Jacket, No. 3.



JACKET
(In cases of slight deformity).

INSTRUCTIONS FOR MEASUREMENT.

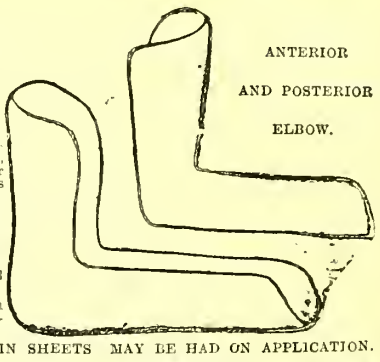
Circumference at axilla.
" waist.
" hips.
Length from axilla to great trochanter.

In severe angular cases, circumference over apex of curve, position of ditto, and contour should be given; in lateral cases a description of the case. In all cases it must be stated if for male or female.

CERVICAL JACKETS.

Same measurements required and circumference at neck, and length from neck to axilla.

Any part of the Jacket can in the process of manufacture be left soft.



A FULL LIST OF SPLINTS AND PORO-PLASTIC IN SHEETS MAY BE HAD ON APPLICATION.

Telegrams— "LINT LIVERPOOL."

LINT.

MANUFACTURERS OF FLAX, & COTTON,

LINTS,

ABSORBENT, AND CARDED

COTTON WOOLS,

ABSORBENT OPEN WHITE, and GREY

BANDAGES,

SURGEON'S, AND CARBOLIZED

TOW.

THE

LIVERPOOL PATENT LINT CO.,

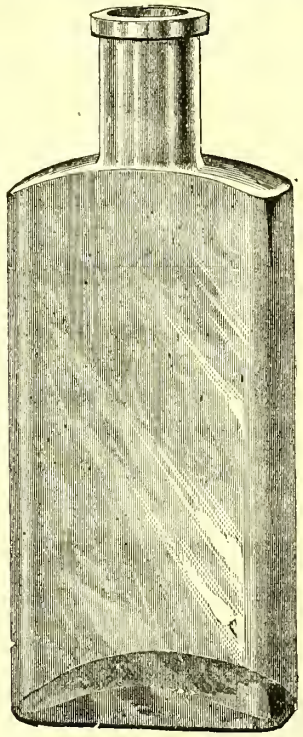
MARK ST. MILLS,

NETHERFIELD ROAD NORTH,

LIVERPOOL.



GLASS BOTTLES



FLAT—with Round Edges.

DISPENSING BOTTLES.

BEST QUALITY,

SUITABLE FOR A HIGH-CLASS TRADE.

GREEN FLINT.

Flats (ordinary and round edges). Ovals, Direct Squares, Rounds and Octagons (plain, graduated, and lettered),

3	4	6	8	12	16 oz.
10/-	10/-	11/6	11/6	16/9	22/6 per gross.

WHITE VIALS (Plain and Graduated),

½	1	1½	2	3	4 oz.
4/6	4/9	6/-	6/9	8/9	10/- per gross.

SAMPLES ON APPLICATION.

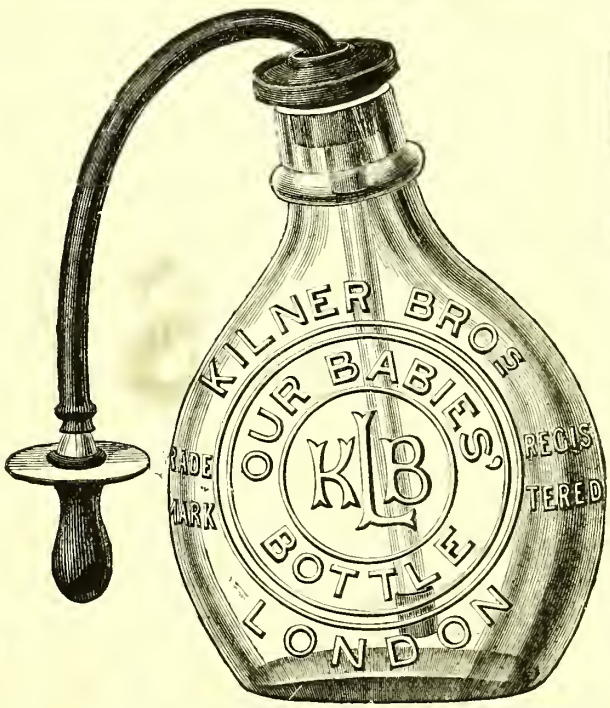
FEEDING BOTTLES.

No.	6½-inch Rubber Tube.	Small lots.	2-grs. lots.
1.	—Green Bottles, Boxwood Top Corks, White Fittings	25/6	24/6
3.	—Ditto, Black Fittings	28/6	27/6
	White glass 2/6 per gross extra. China tops 1/6 per gross extra.		
64.	—Green Bottles, Glass Screw Stoppers, White Fittings	31/-	30/-
66.	—Ditto, Black Fittings	34/-	33/-
	White Glass 3/- per gross extra.		

per gross.

These prices include 1 doz. partitioned Wood Boxes. If Bottles are loose 2/- per gross less.

Supplied each Bottle in Cardboard Box at 4/6 per gross extra.



MINERAL WATER BOTTLES AND BOXES OF ALL KINDS.

Illustrated Catalogue containing full particulars sent on application to

KILNER BROTHERS,

No. 3 GREAT NORTHERN GOODS STATION, KING'S CROSS, LONDON.

KROHNE & SESEMANN'S INHALERS

For the Precise, Systematic, and Safe Administration of **CHLOROFORM & METHYLENE.**

The Lancet, Nov. 15th, 1890, says:—"The fact should never be lost sight of, that many of the dangers ascribed to Chloroform or Methylene are in fact due to the imperfections of the methods used in their exhibition. With K. & S. Regulating Inhaler a precise dilution can be effected, and the Respiration-Indicator is a precise safeguard against accidents."

ILLUSTRATED DESCRIPTION SENT FREE ON APPLICATION TO

KROHNE & SESEMANN, 8 Duke St., Manchester Square, W.; and 241 Whitechapel Road, E., London.

West End Depot of Brin's Oxygen.

ST DALMAS' LEICESTER
Improved Adhesive Plaster
ON FINE FLESH COLORED CAMBRIC

USED BY SURGEONS ALL OVER THE WORLD.

"EMP. HŒMOSTATICUS" (REGISTERED).

Antiseptic Styptic

Constant testimonies are received to the value of this remarkable plaster.

Three-yard Tins, 2/- per Tin.

A. de ST. DALMAS & CO., LEICESTER,

Makers of Porous Plasters, Adhesive, Belladonna, Mustard, Court, and all other plasters

QUALITY GUARANTEED. MAKERS TO THE BRITISH GOVERNMENT.

THE FINEST BOTTLES IN THE MARKET, WITH WORLD-WIDE REPUTATION, ARE BRANDED W THUS.

SPECIALITIES.

Best Dispensing Bottles in all Shapes, including Round-cornered, and any Fancy or other Shapes for Proprietary Articles.

W

REGISTERED TRADE MARK.

SPECIALITIES.

Hand-made Rounds, Opal, Flint, and Turquoise Boxes.

Every attention given to any coloured and special-shaped Bottles.

White Flint, Blue Tint, Green Tint, Rich Dark and Pale Amber, Jet Black, Actinic Green, and all shades of Blue.

WHOLESALE ONLY.

TRADE MARK



REGISTERED.

THE INHALANT

"SPIRONE"

TRADE MARK.

FOR THE TREATMENT AND CURE OF ALL

DISEASES OF THE LUNGS, WINDPIPE, NOSE & THROAT.

CLAIMS TO BE A

Specific for all Congestive and Inflammatory Conditions of the Respiratory Apparatus,

And will be found efficacious in

INFLUENZA, COUGHS AND COLDS, ASTHMA, BRONCHITIS,

Inflammation and Congestion of the Lungs, Pneumonia, Pleurisy, Whooping Cough, Croup, Diphtheria, Pharyngitis, Laryngitis, Catarrh, Sore Throat, Quinsy, Enlarged Tonsils, Hoarseness, Loss of Voice, Colds in the Head, Hay Fever, and all other Complaints of the Respiratory Organs.

None Genuine except such as bear the above Trade Mark "SPIRONE" and the Signature of the Inventor upon the Bottles, on the Label over the Cork, and on the Wrapper.

Retail Price, 4s. 6d. and 11s. per Bottle. Set of Apparatus for Administration, 15s.

PAMPHLETS AND SHOWCARDS FREE ON APPLICATION.

THE SPIRONE COMPANY, LIM., DEPOT—285 REGENT STREET, LONDON, W.

SURGICAL DRESSINGS.

ABSORBENT

FLAX AND COTTON

LINT



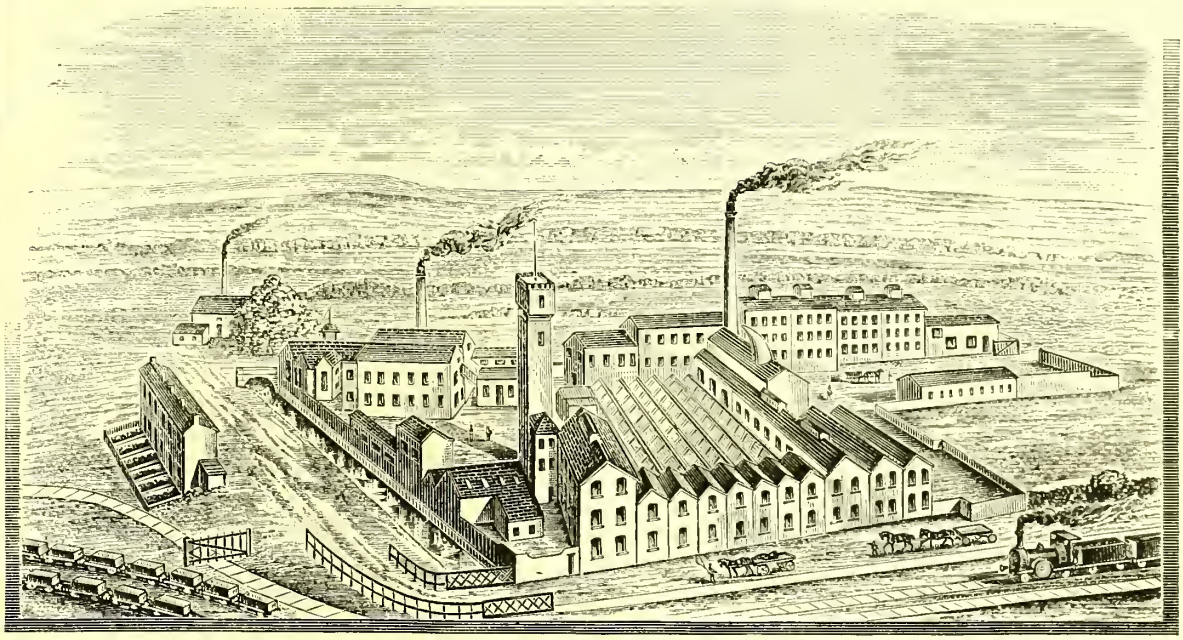
TRADE MARK (REGISTERED).

COTTON WOOLS,
BANDAGES,
GAMGEE TISSUE.

ABSORBENT

ANTISEPTIC DRESSINGS.

ESTABLISHED 1839.



WHEAT BRIDGE MILLS.

ROBINSON & SONS

COTTON SPINNERS, WEAVERS AND BLEACHERS,

WHEAT BRIDGE MILLS, CHESTERFIELD,

And 55 Fann Street, Aldersgate Street, LONDON, E.C.

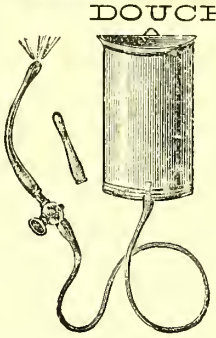
ASK FOR ROBINSON'S "STAG" BRAND WHEN ORDERING FROM THE WHOLESALE HOUSES.

F. SCHUTZE & CO.'S

DOUCHES, ENEMAS, & BANDAGES

Are the Cheapest & Best in the Market.

DOUCHES (REDUCED PRICES).



No. 571A. **Enema Douche,** for hanging or standing up, consisting of 2-pint Bronzed Canister, fitted with 6 ft. best Black Tubing, Vulcanite Stopcock, Rectum and Vaginal Tubes to plug on, in extra-stout card box (as Fig. 571) .. .. .. each 3/6

No. 571. Ditto, the same, but with 3-pint Canister .. .. .. „ 3/9

„ 573. Ditto, the same, but with 5-pint Canister .. .. .. „ 4/3

„ 574. Ditto, the same, but with 8-pint Canister .. .. .. „ 5/9

„ 575. Ditto, the same, but with 2-pint Nickel Tin Canister .. „ 5/9

„ 576. Ditto, with 3-pint Canister instead of 2-pint .. .. .. „ 6/9

„ 571B. Ditto, 3-pint Bronze Canister, fitted with 6 ft. Grey Tubing, Vulcanite Stopcock, & Glass Vagina Pipe (**a Cheap Line**) .. .. „ 2/3

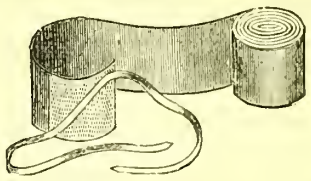
CAN DOUCHE.—No. 571.

No. 563. Ditto, Family Syringe, all Rubber, with six Vulcanite Jets .. .. each 8/9

„ 570. Ditto, for Travelling, to close in hinged Bronze Case .. „ 5/3

No. 576B. **Enema Douche,** Antiseptic, with Glass Reservoir, fitted with 6 ft. best Tubing, Metal Clip, Stopcock, and Glass Vagina Tube (or with Vulcanite Fittings). 2-pint, 7/-; 3-pint, 8/-; 4-pint, 9/- each.

Subject to usual discounts.



BANDAGES.

Schutze's Pure Para Rubber Bandages are our own manufacture, and equal in quality to Dr. Martin's.

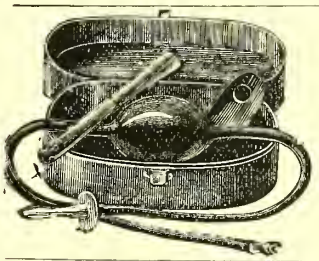
Gauge.		5 ft.	7½ ft.	10½ ft.	15 ft.	21 ft.
19	2½ inch	1/9	2/10	4/-	5/9	8/3 each.
	3 „	2/3	3/6	4/9	6/9	9/3 „
21	2½ „	1/7	2/5	3/6	4/9	6/9 „
	3 „	1/11	2/11	4/-	5/9	7/9 „
25	2½ „	1/2	1/11	2/6	3/6	5/2 „
	3 „	1/6	2/4	3/2	4/2	6/6 „

Perforated coarse or fine, 3*d.* each extra.

POROUS BANDAGES.

Gauge.		5 ft.	7½ ft.	10½ ft.	15 ft.	21 ft.
21	2½ inch	1/10	2/10	4/-	5/3	7/3 each.
	3 „	2/3	3/4	4/6	6/6	8/10 „
25	2½ „	1/4	2/4	3/6	4/9	7/2 „
	3 „	1/9	2/10	4/-	6/-	8/4 „

Subject to usual discounts.



ENEMAS.

No. 558A. Enema, seamless, in one continuous piece, without metal joints, black, red, or green, in oval boxes, complete as illustration, best quality guaranteed.

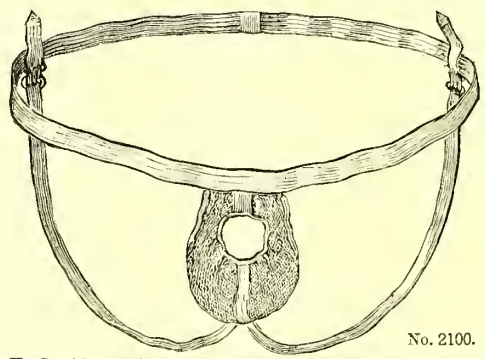
Per doz. 30/-

Ditto, in Cedar Boxes ... ... „ 29/-

ALL CURRENT PATTERNS KEPT IN STOCK.

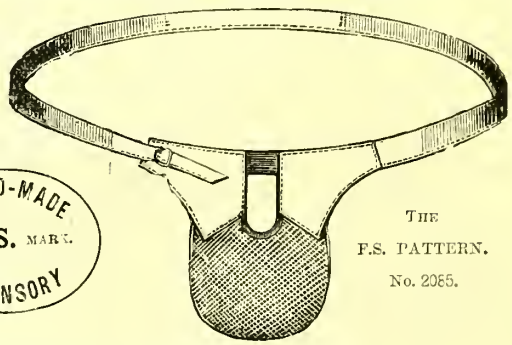
Subject to usual discounts.

These F.S. Suspenders have an elastic insertion in back and front, interwoven with the net, and do away with the troublesome and irritating under-straps and pulleys. They are exceedingly practical and effective, tastefully got up, and neatly packed, each in a small box—half-a-dozen of which in outers. Made in 12 qualities.



No. 2100.

THE HAND-MADE TRADE F.S. MARK SUSPENSORY



THE F.S. PATTERN. No. 2065.

The British and Colonial Druggist says:—"Messrs. F. SCHUTZE & Co. have introduced an improved Suspensory Bandage. It is very simply constructed, and in several material points is a decided improvement on the old-fashioned patterns. The samples which have been sent us, we should not omit to say, are admirably put up, the method of packing deserving commendation for neatness, preservation of the goods, and economy of space."

The Chemist and Druggist:—"The F.S. Hand-made Suspensories are well worth the attention of Chemists."

No.	The F.S. Suspender.	Per doz. £ s. d.
*2085.	Cotton, flesh colour	0 8 6
2086.	„ drab „	0 8 6
2087.	„ white „	0 8 6
2088.	Superfine Thread, pink	0 11 0
2089.	Silk, pink plain bag	0 13 6
2090.	„ „ fancy „	0 16 6
2091.	„ orange, fine quality	0 19 6
2092.	„ new gold „	0 19 6
2093.	„ crimson „	1 2 6
2094.	„ lilac, extra stout, super quality	1 5 0
2095.	„ lemon „ superfine „	1 13 0
2096.	„ white „ „ „	1 16 0

No.	The Perfection Suspender. Fig. 2100. Elastic Body Belts and Under-straps.	Per doz. £ s. d.
*2100.	Superfine Thread, Net Silk bound, without Buckles, to draw on	1 2 6
2101.	„ „ with Buckles	1 5 6
2102.	Silk Net, without Buckles	1 8 6
2103.	„ with Buckles	1 11 6
2104.	Superfine Net, with Superfine Elastic, without Buckles	1 16 0
2105.	„ „ „ with Buckles	1 19 0
*2127.	Oxonian Pattern, Fine Silk Purses, Silk Elastic Insertions	1 0 0
2128.	„ Superfine Fancy Net	1 5 0
2129.	„ Second Quality Fancy Net	0 19 0
2130.	Fine Silk Scarlet Elastic Purses, and Scarlet Satin Fronts and Elastic Body Belts ..	1 18 0

All other patterns kept in stock. Prices from 3s. to 42s. per doz. All above prices subject to the usual discounts.

SPECIAL QUOTATIONS TO SHIPPERS AND FOR LARGE QUANTITIES.

Terms and Illustrated Catalogues on application to

F. SCHUTZE & CO., MANUFACTURERS, 36A ALDERSGATE STREET, LONDON, E.C.

Telegraphic Address—"Odorators London."

VINCENT WOOD,

MANUFACTURER OF SURGICAL APPLIANCES,

3 ST. ANDREW STREET, LONDON, E.C.

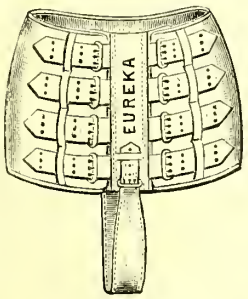
Established 1840. Regtd. Trade Mark, V W L "EUREKA." Telegraphic Address:—"Acme London."

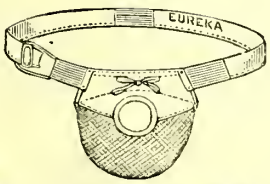
Photo-etching of Stand recently exhibited at the Chemists' and Druggists' Exhibition at the Royal Agricultural Hall, N., April, 1893.

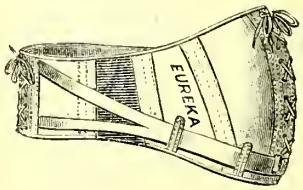


Size of Stand, 100 feet.

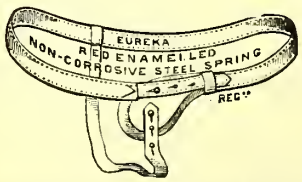














Extract from "The Chemist and Druggist," April 29, 1893.

VINCENT WOOD is the only manufacturer of surgical appliances who has used the Exhibition as a means of promoting business, and he has succeeded in getting into a large glass case one specimen of every article produced in his factories. For example, in one corner there are eight specimens of trusses, from the common to the highly-finished leather. "These," said Mr. Wood, "are the kinds I stock, which are being made in my factory every day. You understand I only supply the trade and exporters. I do not supply the public, but I give them every encouragement to buy my goods by largely advertising them. Chemists can have from me or from their wholesale house these terra-cotta statuettes to display chest-expanders, abdominal-belts, and so on. These plaques are pretty, aren't they? I have just had them in." These are indeed pretty circular opals with brass border. Mr. Wood has brought out a new riding-belt, which gives excellent support to the small of the back, while it has a detachable scrotum-bag, which may be fastened by hook, buckle, or button. He is also going in for the bath-glove trade (loofah combination, Turkish towelling, &c.), and the electric belt and appliance business has grown wonderfully with him. Of all that one sees the reflection at the Agricultural Hall. The counters of the stand are draped with festoons of pine-wood felt—a very pretty touch—and on the counter are a lot of electric appliances which should be examined.

THE LARGEST BONÂ FIDE MAKER IN THE WORLD EMPLOYING BRITISH LABOUR.

Trusses, quality guaranteed. Inguinal from ...	11/6 doz.
Surgical Elastic Hosiery, the finest quality,	4/6 pair, thread
Ladies' Abdominal Supporting Belts from ...	24/- doz.
Gentlemen's „ „ „ ...	12/- „
Obstetric Binders, The Eureka	36/- „
Suspensory Bandages from	1/9 „
Bath Gloves, Best Turco, bound edges ...	2/6 „
Loofah Belts, Gloves, and Pads from	3/6 „
Magnetic Machines from	8 6 each.
Magnetic Belts, Lung Invigorators from ...	7/- „
Galvano-Electric Continuous Battery Belts:	
1 Power, 8 Batteries (as advertised) each	8 6
2 „ 16 „ „ „	12/6
3 „ 24 „ „ „	16/6
Suspender and Belt combined (each) ...	12/6 17/6 22/6
Corsets, according to power „	4/6 7/6 10/6 12/6, &c.
Children's Ear and Night Cap (patented) ...	24/- doz.
Cheap Expanding Braces, from	21/- „
Enemas, seamless, each in box, complete, best quality made, cloth covered	28/6 „
Eye Shades, Chest and Lung Protectors, and Surgical Appliances generally.	

Place your entire orders with me, and if ordering through a Wholesale House INSIST upon having Vincent Wood's articles.
Special Orders (except Elastic Hosiery) executed same day as received. Will guarantee a decided saving by your placing your orders with me.

ROTARY PILL MACHINES

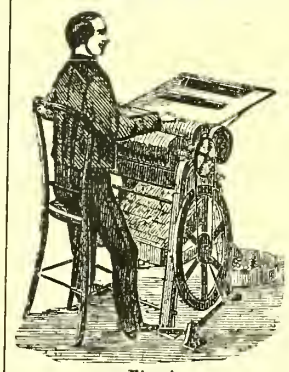


Fig. A.

Fig. A.—This invention consists in a novel and improved arrangement of Machinery, whereby any description of Pill Mass can be converted into Pills, at the rate of from 15 lbs. to 40 lbs. per hour, according to the size of the Machine used.

Fig. A.—No. 1 .. £12 12s.
No. 2 .. £15 15s.
No. 3 .. £20 0s.

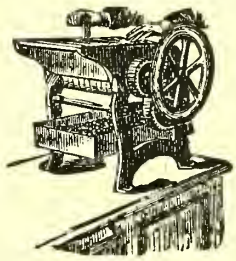


Fig. B.

Fig. B.—A small useful Machine capable of making 10 lbs. of Pills per hour, particularly adapted for persons making small quantities, at **£7 15s.**
Press suitable for same, **£2 15s.**

Any of the above can be made to cut two or three different size Pills at an additional cost for extra Rollers and Plates.

PIPING PRESSES

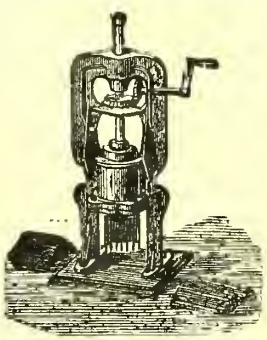


Fig. C.

Fig. C. is the improved Press for Piping, by means of which a great quantity of Mass can be Piped in a few minutes, truer than by the old method of rolling.

No. 1 .. .. .. £3 0s.
Fig. C.—No. 2 .. £5 10s.
No. 3 .. £8 10s.

J. W. PINDAR'S NEW ROTARY PILL MACHINES

As used to this date by Messrs. Holloway, Cockle, Cox, and all the principal Pill Makers in Europe, Asia, Africa, America, and Australia.

29 Murray St., New York,
and Farringdon Rd.,
London, Nov. 9th, 1880.

Mr. J. W. PINDAR,

Dear Sir,—Your letter of inquiry came duly to hand. As I always told you, the Pill Machine in operation at my London warehouse has given entire satisfaction. So have those we are using in this country. We can make smooth, round Pills of uniform size at a very small expense. I can safely say that your Pill Machine is all that you claim it to be—a perfect Machine.

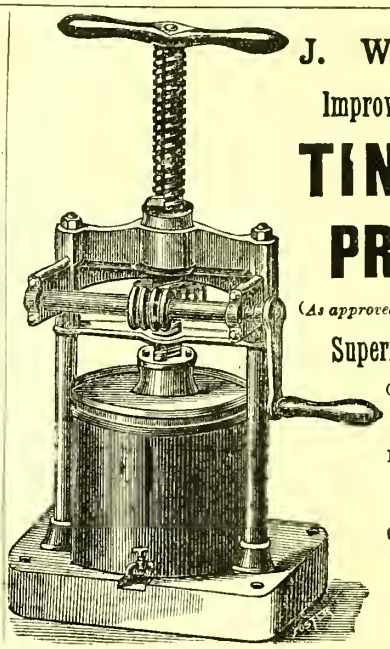
Yours truly,
A. J. WHITE.

224 Strand, 13th March, 1866.

Mr. J. W. PINDAR,

Sir,—I have much pleasure in stating that the Pill Machine which you made for me answers remarkably well, as the Pills are far better made than those by hand-machines, and with much less waste. I can, therefore, confidently recommend it as a very excellent one, a great saving of labour and, consequently, expense.

I remain, yours faithfully,
THOMAS HOLLOWAY.



J. W. PINDAR'S
Improved Double-Action
TINCTURE PRESSES

(As approved of by Wholesale Chemists.)

Superior to Hydraulic,

On account of holding the pressnre.

Prices for One Gallon,
£3 10s.
For each additional Gallon, **£1 10s.** extra.

Directions for use forwarded with each article.

3 Crane Court, Fleet Street, Feb. 14th, 1871.

To Mr. J. W. PINDAR.

Dear Sir,—We have now used your Rotary Pill Machine about six years, and find it answers better than any we had previously used, and makes the Pills of a very regular size.—Yours truly,
T. WHELPTON.

338 Oxford St., opposite Great Portland St.,
Feb. 11th, 1871.

Mr. J. W. PINDAR,

Sir,—The Rotary Pill Machine and Press which we had from you (for a special order) answered very satisfactorily.—We are, Sir, yours respectfully,
JOHN BELL & CO.

NEW PATENT
"ECCENTRIC" PILL COATER.

Invented and made by J. W. PINDAR, Patentee.



By an entirely new arrangement of mechanism this machine is constructed in a manner which supersedes all others, as, owing to its "Eccentric" motion, the Pills.—which may be coated with Pearl, Silver, Gold, or Sugar, &c., &c.—are thoroughly separated from each other during the process, and retain their original spherical form, whilst being thrown round the receptacle with remarkable velocity.

These machines are equally adapted for coating large or small quantities; thus, a machine constructed for and suitable for coating 20 lbs. will coat 1 lb. only with equal efficacy, and in the most satisfactory manner.

Each machine is supplied with a Drug or Powder Sifter, to be attached if required, and which, fitting to top of Pill Receptacle, is subject to the same "Eccentric" motion as above mentioned.

This addition will be found of great advantage in the Laboratory, being both efficient and compact.

PRICES.

No. 1.—For 2 lbs., £3 5s.; sifter for same, 7s. 6d.
No. 2.—For 5 lbs., £4 15s.; sifter for same, 15s.
No. 3.—For 10 lbs., £6 15s.; sifter for same, £1 5s.
No. 4.—For 20 lbs., on Iron Standards, for Steam, Gas, or other power, £15 15s.; sifter for same, £2 5s.

The smallest Machines can be worked by Steam Power at a small additional cost.

Testimonials from all parts of the World may be seen on application to

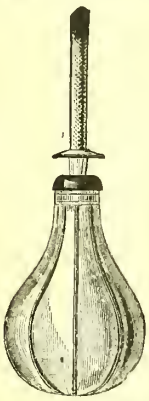
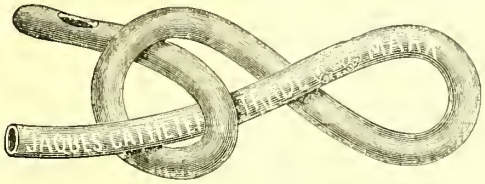
J. W. PINDAR, 75 New Church Rd., Camberwell, LONDON.

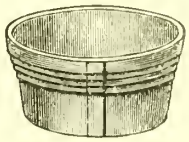
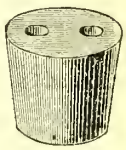
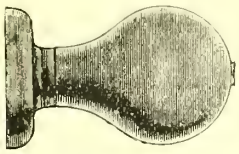
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MANUFACTURERS.

Patentees of the New Moulded Enema, &c.

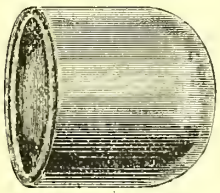
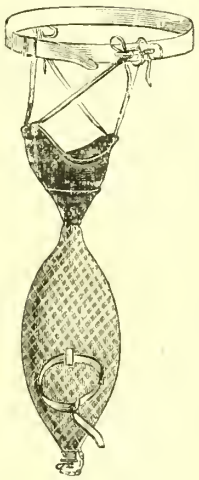

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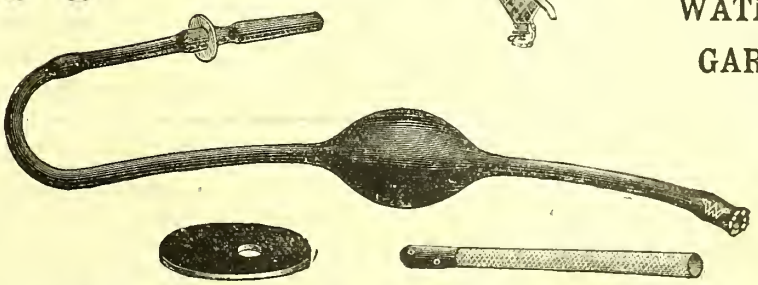


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Why should Wholesalers and Sundriesmen push Shirleys' lines?

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Very attractive **Pink and White Celluloid Cases**, watch shape, for pocket, lettered in Aluminium, which does not tarnish. The cone is mounted on boxwood, which fits into the case; thus the cases can be shown in the window, and the Menthol kept in the cool in hot weather or climates. This is a charming line, and everyone should order it.

6*d.* size, 3/9; 1*s.* size, 6/9 per dozen.

A1 CORRUGATED SOOTHERS & RINGS.

Provisional Patent, 19,764.

The edges of the ring are slightly ribbed, and practical buyers will thus see the many advantages.

1*d.* Rings, with Cord for neck ... ... 7/– gross.
2*d.* „ .. „ ... ... 1/3 dozen.
3*d.* Soothers, with Ring, seamless Teat ... 1/10 „
2*d.* „ with sliding Ring, seamless Teat 2/9 „

Children supplied with this Ring gently assist the teeth of their own accord.

No. 16. Soother, Rubber Ring and Teat, seamless Teat ... ... 2/9 dozen.
„ 17. Soother, small, ditto ditto ... 2/– „
„ 12. Bone Ring, Silk for neck, and Safety Pin for attaching to child's dress ... 15/6 gross.
„ 1. 1*d.* Card Soother, on the bronze card... 7/– „
„ 2. 1*d.* Bone Ring Soother ... ... 3/6 „
„ 11. 2*d.* Glass Union, seamless Teat, and Cord for neck ... ... 14/– „

SPECIAL VALUE IN SEAMLESS TEATS.

F1, 4/9; F2, 6/3; F3, 7/6; F4, 11/– per gross.

No line in the Trade to equal them at the price.

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The white Opal Jars, fitted with **Polished** Celluloid Caps, assorted colours. These look splendid, and are just the thing for Pomades, Vaseline, and the like.

½-oz.	1-oz.	1½-oz.	2-oz.	3-oz.	4-oz.
11/3	14/3	16/–	18/–	19/6	22/6

Please insist on Shirleys' if you wish satisfaction.

ETIENNE'S PERFUMERY.

These Scents have become popular with amazing quickness, and once bought command repeats.

6*d.* Sprinklers ... 3/9 doz.
6*d.* Corked & Capped 3/6 „
6*d.* Fancy Cut ... 4/– „
6*d.* Eau de Cologne 3/6 „
6*d.* Lavender Water 3/6 „
1*s.* „ „ 6/6 „
1*s.* Lundborg shape, stoppered ... 8/– „
1*s.* Corked & Capped 7/– doz.
1*s.* Sprinklers ... 7/6 „
1*s.* Fancy Cannon ... 7/6 „
1*s.* Lubin, stoppered, 3 in elegant box 8/– „
2-oz. Lundborg ...13/– „
4-oz. „ ...24/– „

Own name on 3 dozen 1*s.* size, free of charge.

CARDED LINES. SELL SPLENDIDLY.

1*d.* In Tubes ... 7/6 gross.
1*d.* In Bottles ... 8/– „
2*d.* Bottles ...14/– „
2*d.* „ ribbed 15/– „
1*d.* Eau de Cologne 8/– „
3*d.* „ „ 1/10 doz.
3*d.* Ovals, with Sprinklers... 2/– dozen.
3*d.* Capped, ditto 1/10 „
3*d.* Hawarden and Primrose 1/10 „
1*d.* Lavender and Musk ... 8/– gross.
2*d.* Ditto ...14/– „
3*d.* Ditto ... 1/10 dozen

LATEST! 3*d.* "May Blossom" and "White Rose," in honour of Royal Wedding, with Portraits of the Duke and Duchess of York on the labels, well executed. 2/– dozen.

MAKE NO MISTAKE! INSIST ON ETIENNE'S, AND YOU WILL NEVER REGRET IT.

SPECIAL LINE IN WATCH SMELLING BOTTLES.

No. 336, 3/6 doz.; 36/- gross. Filled, 4/- doz.; 42/- gross.

Cheapest Watch Bottle ever offered for sale. Assorted Cuttings.

SHIRLEY BROTHERS, 105 Whitecross St., BARBICAN, E.C.

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CHEMISTS SAVE TIME AND MONEY

By selling my "Plain Label"* Lines. Should remit prices quoted for sample ½-gross lots. If not satisfactory, I will pay carriage back, and return cash.

***PENNY PETROLEUM JELLY** Per gross
In ½-gross tin boxes .. .. 5/; double size, 7/6

PENNY CEMENT *(largest and best)*
On ½-gross cards 5/3

***PENNY SEIDLITZ POWDERS**
½-gross glass-top boxes .. .. at 6/

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4-oz. glass, metal screw cap 3/
8-oz. " " 5/
This is warranted pure, and is a thoroughly good line.

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In 1-dozen parcels .. .. at 5/9

PENNY FURNITURE CREAM
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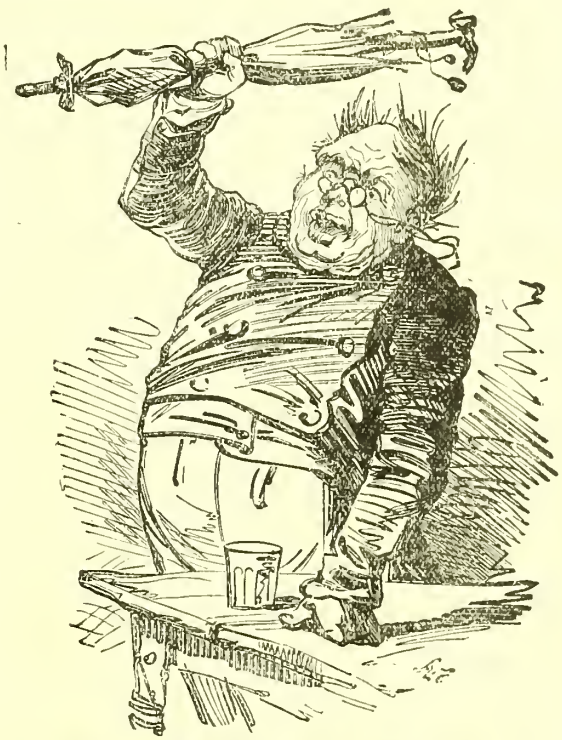
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On ½-gross cards .. .. 5/9 and 6/6

***PENNY** (*Tasteless*) **PILLS**
6 in a box, ½-gross cards 4/6
SPECIAL NEW LINE.

***PENNY** (*Tasteless*) **PILLS**
4 Pills in a box, ½-gross cards 3/9

***PENNY SOOTHERS**
Black Teats, fitted complete with Shield, Union, and Cord, on ½-gross cards at 7/-; this is a good line, and sells freely.

***PENNY TOOTH TINCT.**
With Wool complete, ½-gross cards 5/6



"I appeal to every sensible person."

SAUCES.
See Special Price List.

***PENNY CORN SOLVENT** Per gross
On ½-gross cards 5/6

PENNY CAMPHOR SQUARES
½-gross boxes 7/

***FULLER'S EARTH POWDER**
1d. Boxes, in ½-gross glass-top boxes 3/6

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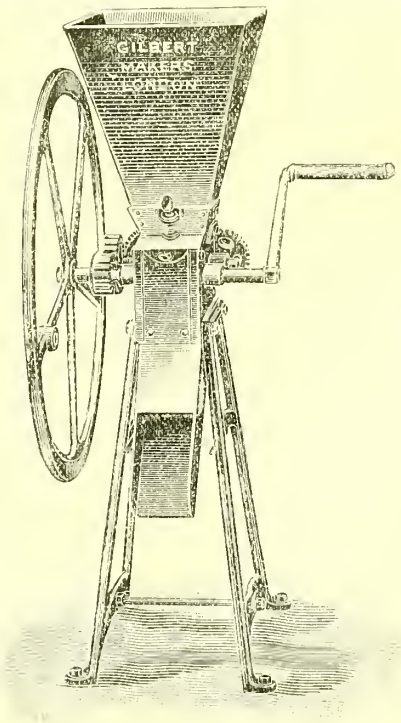
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Reputed Pints, per doz. ..	4 6	4/- ..	4 6
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Per Gallon	2/- ..	1 3 ..	2 -

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GRANULAR EFFERVESCENT CITRATE OF MAGNESIA. Per cwt., 70 - and 77 -.

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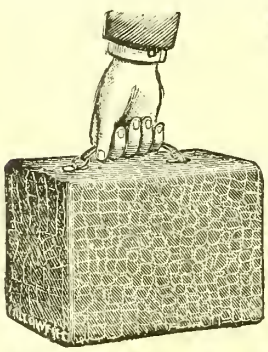
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No 6.



No. 16.



No. 2.



No. 8.



No. 16.



No. 9.

No. 9.—Perfume Bottles, with cut shoulders and cut globe stoppers:—

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a. Round	19/-	24 6	33/6	43/- per doz.
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Bottles with pink instead of white enamelled labels cost 2 6 per doz. extra.

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No 3.



No. 7.



No. 10a.

No. 8.—Lozenge Jars, with cut-glass knobs, 35/- per doz. Diam. on bottom, 4½ in. Height to top of knob, 8 in.

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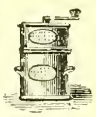
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Trade 8/6 per dozen, cash, Carriage paid.



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Producing Flaxen Golden Hair.

Gold Medal, PARIS, 1867. PHILADELPHIA, 1876.

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Have the largest sale of any Baby Comforters in the world. Avoid all useless imitations of the "Lily" Comforter.

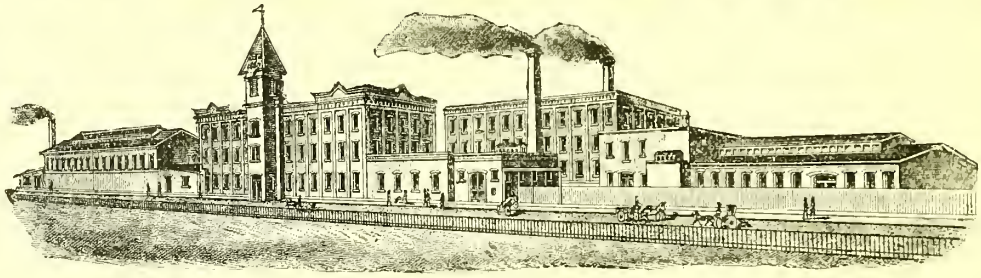
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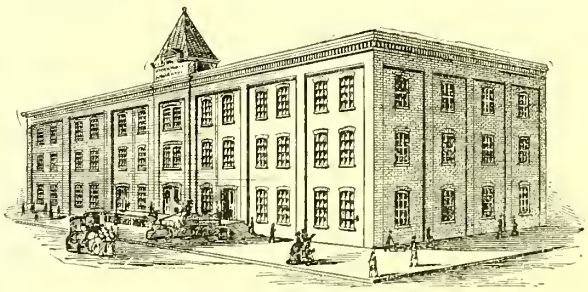
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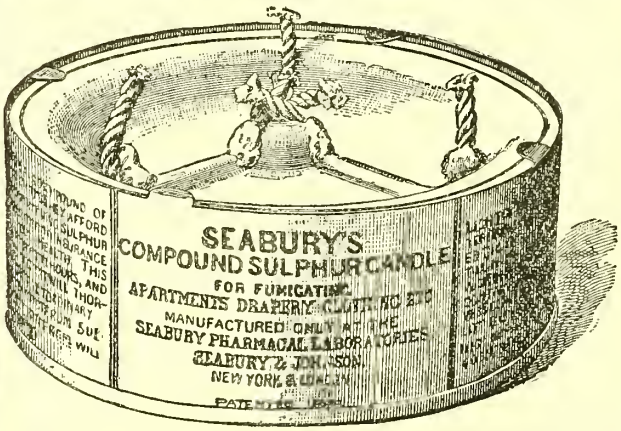
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are the safest, surest, and most convenient form in which Sulphur can be burned indoors, for

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Diphtheria,
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ORIGINAL MANUFACTURERS OF

PHARMACOPŒIAL AND SURGICAL PLASTERS

IN RUBBER COMBINATION,

ANTISEPTIC DRESSINGS AND ABSORBENTS, &c.

Manufacturers of PLASTERS of every Description.

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ABSORBENT BANDAGES, COTTONS, GAUZES, LINT, WOOLS of every description.

Antiseptic, Plain and Medicated, Benzoated, Borated, Carbolated, Cocaine, Corrosive Sublimate, Eucalyptol, Hydronaphthol, Iodized, Iodoform, Morphia, Naphthaline, Salicylated, Styptic, Tannin, Thymol, &c.

In all our preparations the percentage of medication is based upon the weight of the finished product.

OILED SILK, MEAD'S DRESSING PAPER,

OILED MUSLIN, OILED PAPER, &c., for Hospital Purposes.

Antiseptic Pellets.
Corrosive Sublimate, in bottles, 9/, 16/, 30/ doz. bots.

Adhesive Strips.
Dr. Penny's Adjustable (12 in a box), 24/ per doz.

Darby's Dental Capsicum Plasters.
(In boxes of 30 Plasters, 36/ per dozen.)

Court Plasters, in 50 Varieties, from 4/ gross to 40/ dozen.

Mead's Rubber Adhesive Plaster.

In 5-yard rolls, 12 inches wide, 5/ each. In 1-yard rolls, 7 inches wide, 14/ per dozen.

10-Yard Spools—	Width	¼	½	1	1½	2	2½	3 inches.
	Price	12/	14/	16/	20/	24/	28/	32/ per dozen.
5 „ „	„	9/	10/	12/	15/	18/	21/	24/ „

S. & J. Surgeon's Rubber Adhesive Plaster

Has almost entirely supplanted the old form of Adhesive, by reason of its superiority in all essential qualities. PLAIN or POROUS.

In 5-yard rolls, 7 inches wide, 6/6 each. In 1-yard rolls, 7 inches wide, 17/ per dozen.

10-Yard Spools—	Width ½	1	1½	2	2½	3 inches	
	Price 18/	24/	30/	40/	50/	60/ per dozen.	

Belladonna Plasters—Porous and Plain, 5 × 7½ inches, 54/ per gross; 7 × 12 inches, 10/ per dozen.

1-yard rolls, 7 inches wide, 27/6 per doz. 5-yard rolls, 5 inches wide, 102/; 7 inches wide, 126/ per doz.
„ „ on red felt, 36/ per doz. 5×7½ inches, 6/ per doz. 7×12 inches, 12/ per doz. On swansdown, 36/ per doz. yards.

Belladonna Breast Plasters, 6 inches, 4/6; 7 inches, 6/; 8 inches, 7/6 per dozen.

Kid Plasters, long shape, 5/, 6/, and 7/ per dozen.

Camphorated Blister Plaster, 27/6 per dozen yards.

Strengthening Plasters—Porous, 5 × 7½ inches, 30/ per gross; 7 × 12 inches, 72/ per gross.

1-yard rolls, 5 inches wide, 14/; 7 inches wide, 27/6 dozen yards. 5-yard rolls, 5 inches wide, 60/; 7 inches wide, 84/ per dozen.
On red felt, „ „ 36/ „ „ „ „ 12/6; „ „ 14/ each;
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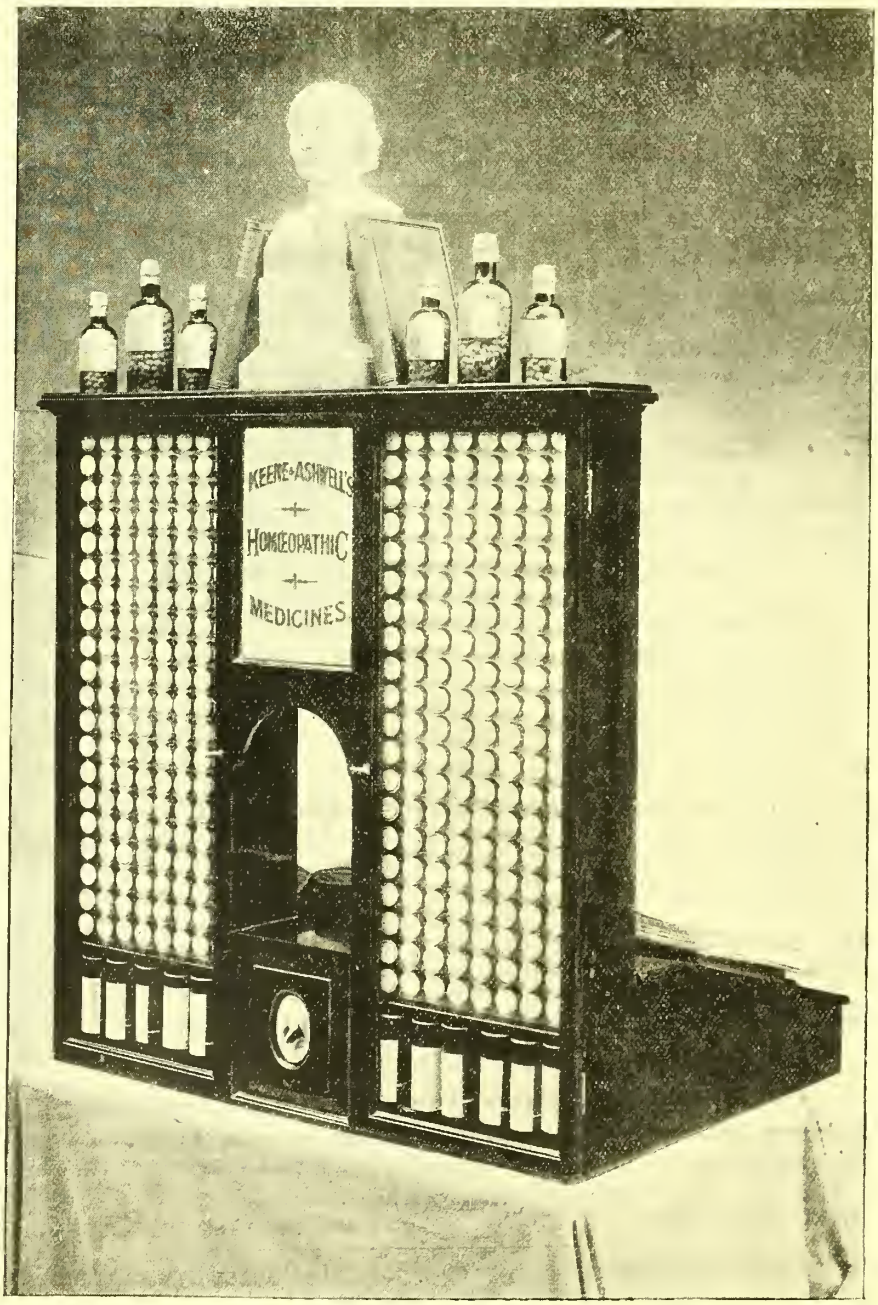
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